

WHOI-81-100

DESCRIPTION OF W.H.O.I. ROCK DREDGE SAMPLES

VOLUME 1

Edited By

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WOODS HOLE OCEANOGRAPHIC INSTITUTION  
Woods Hole, Massachusetts 02543


October 1981

TECHNICAL REPORT

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ABSTRACT

This report is Volume I in the series of reports entitled, "DESCRIPTIONS OF W.H.O.I. ROCK DREDGE SAMPLES". This series represents a major effort to catalog and prepare initial descriptions for all rock dredge samples in the W.H.O.I. Sea Floor Samples Collection, and to distribute this information throughout the scientific community. Volume I contains sample descriptions from approximately 382 dredging stations executed during the period 1960 through 1977. It also presents a digitized listing of all dredge station data for the entire W.H.O.I. Dredge Collection through 1980. The data are sorted by Marsden Square and can serve as a regional index for all rock descriptions included in Volumes I-III.



## INTRODUCTION

### A. Scope & Format of this Report.

"Descriptions of W.H.O.I. Rock Dredge Samples" is an ongoing series of reports that present station data and detailed descriptions of the dredge samples in the W.H.O.I. Sea Floor Samples Collection.

The first three volumes in this series represent the completion of a major effort to describe the entire back-log of ~790 dredge stations in the W.H.O.I. dredge collection as of 1980. Volume I includes a variety of cruises with a wide geographic distribution executed during the period 1960 to 1977 (Table ). Many of the cruises in Volume I preceded the establishment of a central archiving facility in Woods Hole. The material in Volume I has been prepared by the W.H.O.I. curatorial staff who have painstakingly verified station locations and slabbed and described representative suites from each of these dredge hauls.

Volume III includes material collected from September 1978 - December 1980 and represents a new procedure where most of the descriptive work is executed onboard ship by participating scientists. As such, it represents a model for future dredging cruises and descriptive reports and, therefore, was prepared first in (May 1981). Volume II will fill the gap and include the years 1966 through 1979. We expect Volume II to be printed in mid-1982; subsequent volumes will be prepared as incoming material demands.

This volume is organized alphabetically by research vessel and then chronologically within each of the vessels' many cruises. Each cruise "chapter" includes a generalized map of the ship's track, a digitized summary of the station location and samples recovered and finally the detailed descriptions. Notes on the descriptive format and abbreviations are provided in Table I. (Notes on Detailed Rock Descriptions.)

## B. Archiving Procedures.

For the majority of dredge hauls in this volume, the assignment of identification numbers was generally done on a random basis. Thus rocks numbered in order do not necessarily possess similar lithologies. In describing a dredge haul, all specimens of reasonable size were sorted and many slabbed to obtain a fresh surface for description. If the dredge haul was very large and homogeneous, a representative suite of rocks were selected and described.

The standard format for archiving W.H.O.I. rock dredge samples is as follows: each rock (and subsequent slab) is labelled with the ship symbol, cruise number, and station number of the dredge haul, followed by a unique number for every rock within the dredge. For example, CHN 115 - 26 - 16 refers to rock 16 from station 26 of cruise Chain 115. All rock samples from this collection should be referenced in the literature by their Woods Hole identification number.

As a rule the station positions quoted here approximate the beginning of the station or the best estimate between several fixes of the dredge's location during the station. The quality of these fixes vary with the technological advancements in ship positioning capabilities. In recent years the end depth or fix has been taken when the dredge leaves the sea floor, not where it actually arrives on deck. All depths included in this volume are given in corrected meters. More detailed navigation information such as additional fixes or length of wire-out during stations is available from the curator's office. Likewise, detailed sampling records including names of investigators, proposed analyses, and copies of published papers are kept at the same office.

## C. Digitization of Dredge Sample Data.

All logistical information about geological samples in the W.H.O.I. Sea Floor Samples Collection is stored on magnetic tape and accessible through a rapid retrie-

C. Digitization of Dredge Sample Data. (Cont'd)

val computer program. Samples can be sorted and retrieved through a number of parameters such as Marsden Square, water depth interval, sampling device, physiographic province, as well as simply by cruise number. A semi-coded listing of all the dredge stations in the W.H.O.I. collection as of 1980 sorted by Marsden Square is included in Table 3. In addition, Table 2 is an index of the cruises, including dates and geographic areas which can be found in Volumes I-III of Description of W.H.O.I. Rock Dredge Samples.

The following summary explains the coded terms used in the computer listings of samples in this report:

Ship Codes:

ATL	-	Atlantis
AII	-	Atlantis II
CHN	-	Chain
GOS	-	Gosnold
GIL	-	Gilliss
ISO	-	Islas Orcadas
KNR	-	Knorr
VUL	-	Melville - Vulcan Expedition

Sample Recovery Devices:

07	-	Pipe Dredge
08	-	Chain Bag Dredge
09	-	Anchor Dredge
10	-	Pipe Dredge, 3 in.
11	-	Pebble Dredge
12	-	Pierce Dredge

Fix Types:

Types of navigational equipment used to determine the sample location are as follows:

00	-	Unspecified - (Comment in REMARKS or on COMMENT CARD)
01	-	Dead Reckoning
02	-	Visual Bearing
03	-	Radar Fix
04	-	Celestial
05	-	Loran A
06	-	Loran C

C. Digitization of Dredge Sample Data. (Cont'd)

Fix Types: (Cont'd)

- 07 - VLF
- 08 - Omega
- 09 - Satellite
- 10 - Radar Transponder Buoy
- 11 - Bottom Transponder
- 12 - Final Navigation File\*

\* Satellite fixes updated by continuous monitoring of ship's speed and heading via gravity acquisition system.

Dredge Weight (Recovery)

These are always quoted in kilograms unless the code specifically includes a G for grams (i.e. 010G = 10 grams).

Physiographic Province

A general physiographic location has been assigned to each of the samples listed, and can be decoded as follows:

- 01 - Insular Shelf
- 02 - Continental Shelf (along continental margin)
- 03 - Insular Slope
- 04 - Continental Slope
- 05 - Insular Rise
- 06 - Continental Rise
- 07 - Marginal Plateau or Borderland, deeper than 100 fms (e.g. Blake Plateau)
- 08 - discontinued
- 09 - Archipelagic Apron
- 10 - Abyssal Plain
- 11 - Abyssal Hills
- 12 - Seamount or Seamount Province
- 13 - Aseismic Oceanic Rise or Ridge (e.g., Rio Grande Rise, Walvis Ridge)
- 14 - Ridge Crest
- 15 - Ridge Flank
- 16 - Axial Valley
- 17 - Trench - Insular
- 18 - Trench - Continental Margin
- 19 - Fracture Zone
- 20 - Marginal Sea (e.g., Sea of Okhotsk, North Sea)
- 21 - Small Ocean Basin (e.g., Red Sea, Caribbean Sea)
- 22 - Inland Fresh Water Lake (e.g., African Lakes)
- 23 - Harbor, Shallow Bay (e.g., Buzzards Bay)
- 24 - Delta or Cone (e.g., Hudson Canyon)
- 25 - Submarine Canyon (e.g., Hudson Canyon)

C. Digitization of Dredge Sample Data. (Cont'd)

Physiographic Province (Cont'd)

- 26 - Mid-Ocean Canyon or Channel (e.g., Maury Channel, N. Atlantic Mid-Ocean Canyon)
- 99 - Unspecified: (Comment in REMARKS or on a COMMENT CARD)

Rock Types and Vita Code.

These columns have not been coded as they are undergoing some revision in order to be more descriptive of rock samples.

D. Sample Distribution Policy.

The W.H.O.I. Sea Floor Samples Laboratory is prepared to furnish samples and data to interested researchers and students within the scientific community who express a legitimate interest and need.

Requests for samples may be sent to the Geological Sample Curator's office, McLean Laboratory, W.H.O.I. These should include a summary of the intended research and the laboratory facilities available. Requests will be reviewed by the Principal Investigator responsible for collecting the samples, and may be approved if the proposed studies are not in conflict with concurrent laboratory studies. The Principal Investigator will retain authority to approve sample requests until expiration of the relevant research grant or until two years from the date of termination of the cruise, whichever is later. Following the period of proprietary access, sample requests will be approved by the Curator's office in consultation with the appropriate staff scientists.

Persons receiving samples will also receive a statement explaining the "Responsibilities of Persons Receiving Samples". Further documentation regarding this distribution policy may be found in W.H.O.I. Institution Memorandum #3-75 ("Distribution Policy for Geological Samples").

#### ACKNOWLEDGMENTS

The editors of this report would like to recognize all those persons contributing to the rock descriptions provided herein. We also wish to thank other members of the W.H.O.I. Curatorial Staff for their persistence in carrying out routine archival procedures which maintain the high quality of this collection. David A. Johnson provided much of the guidance and drive for this effort through the years. Donna Allison and Alice Tricca did a great job typing the complex forms. Support for the preparation of this report was provided by a grant to the Woods Hole Oceanographic Institution Sea Floor Samples Laboratory (National Science Foundation Grant No. OCE 78-25231). The petrologists on the scientific staff at Woods Hole (W. Bryan, G. Thompson, H. Dick, M. Mottl) have been of continuing assistance to us in providing logistical and descriptive information from their respective shipboard programs, and in implementing an effective sample distribution policy.

TABLE I  
NOTES ON DETAILED ROCK DESCRIPTIONS

<u>Lithology:</u>	Rock name; i.e. amphibolite, basalt, gabbro, greenstone
<u>Wt.:</u>	Weight in grams or kilograms
<u>G.S.:</u>	Grain size: G = glassy A = aphanitic; individual grains not visible to the naked eye F = fine; <1mm M = medium; 1 to 5mm C = coarse; >5mm
<u>Mineralogy:</u>	Phases present in groundmass if apparent in hand specimen.
<u>Phenocrysts:</u>	Type and estimated amount in %; use abbreviations: pg - plagioclase, px - pyroxene, amph - amphibole, mt - magnetite, py - pyrite, ol - olivine, il - ilmenite, ep-epidote, pr - prehnite, mi - mica, etc.
<u>Ve:</u>	Vesicles: given an estimate of the percent in the rock
<u>Am:</u>	Amygdules - filled vugs or vesicles: T - trace, S - scattered C - common, A - abundant
<u>Mn:</u>	Manganese coating - give thickness (in mm or cm)
<u>We:</u>	Weathering F - Fresh, no discoloration L - Light, discolored at edges M - Moderate discolored H - Heavy, clayey VH - Very Heavy, disaggregating
<u>Alteration:</u>	Metamorphism - facies and degrees i.e. Gr - Greenschist Amph - Amphibolite Ze - Zeolite
<u>Remarks:</u>	Note if glass is present, and indicate visible structures: for example, "pillow rind fragments".

## CRUISE INDEX OF DESCRIPTIONS OF WHOI ROCK DREDGE SAMPLES VOLUMES 1-3

<u>Cruise #</u>	<u>General Location</u>	<u>Date</u>	
<u>VOLUME I</u>			
<u>Atlantis</u>			
260	Hydrographer Canyon	Oct.	'60
266	Blake Plateau	June	'61
280	New England Seamounts	June	'62
281	New England Seamounts	June	'62
296	New England Seamounts	Aug.	'63
<u>Atlantis II</u>			
1	Continental Slope off New York	Feb.	'63
11	Puerto Rico Trench	July	'64
13	Mid-Atlantic Ridge	Sept.	'64
15	Bitter Lakes Region-Suez Canal/Continental Slope of Ethiopia	Feb.-Mar.	'65
42	Mid-Atlantic Ridge	July	'68
73	Mid-Atlantic Ridge (Famous Area)	Nov.	'72
77	Mid-Atlantic Ridge (Famous Area)	Aug.	'73
86	Continental Rise off Atlantis Canyon	Mar.	'75
92	Median Valley, Mid-Atlantic Ridge	Sept.	'75
93	Indian Ocean Triple Junction/Banda Sea	Feb., Oct.	'76
96	Kane Fracture Zone	Nov.	'77
<u>Chain</u>			
7	New England Seamounts	May	'59
9	Plantagenet Bank (S. of Bermuda)	Oct.	'59
11	Caribbean Sea	Feb.	'60
13	Rockallbank/Continental Slope of England	Sept.	'60
19	Puerto Rico Trench	June	'61
21	New England Seamounts/Mid-Atlantic Ridge	Aug.	'61
34	Puerto Rico Trench	Dec.	'62
36	Barracuda Fault	June	'63
39	Abyssal Hills S.E. of Bermuda	Sept.	'63
43	Seychelles (Indian Ocean)/Mid-Atlantic Ridge	May, Aug.	'64
46	Mona Canyon/Blake Plateau	Feb.	'65
52	Blake Plateau	Sept.	'65
57	Puerto Rico Trench	April	'66
58	Bermuda Rise	May	'66
61	Med./Red Seas		
75	Caribbean-Aves Ridge, Mid-Atlantic Ridge	Oct.	'67
82	Mid-Atlantic Ridge		
100	Samoan Passage, Ninety East Ridge, Slope of Australia	Apr., Sept.	'71
115	Bouvet Triple Junction	Feb.	'74
119	Eastern Mediterranean Sea	Apr.	'75



TABLE 2. (Cont'd)

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<u>Cruise #</u>	<u>General Location</u>		<u>Date</u>	
<u>VOLUME I (Cont'd)</u>				
<u>Gosnold</u>	73	Blake Plateau	July	'65
	97	Off Jamaica	Mar.	'67
<u>Knorr</u>	42	Mid-Atlantic Ridge	Aug.	'74
	54	Cayman Trough	Dec.	'76
<u>VOLUME 2</u>				
<u>Atlantis II</u>	20	Romanche Fracture, St. Pauls Rocks	Mar.	'66
	32	Mid-Atlantic Ridge 42°-43°N	July	'67
	42	Romanche Fracture Zone	June	'68
	59	Mid-Atlantic Ridge	Dec.	'70
	60	Romanche Fracture Zone	June	'71
	78	Mid-Atlantic Ridge, Kane Fracture Zone	Oct.	'73
	85	New England Seamounts	Sept.	'74
Leg 2	93	Walvis Ridge	Nov.	'75
<u>Chain</u>	35	St. Pauls Rocks	Mar.	'63
	44	Mid-Atlantic Ridge @ 22°N	Oct.	'64
	105	King's Trough	July	'72
<u>Gilliss</u>	103	Mid-Atlantic Ridge	Aug.	'78
	107	Tamano Fracture Zone	Oct.	'79
<u>Islas Orcadas</u>	11-76	Far South Atlantic	Nov.	'76
<u>Oceanus</u>	23	Caymen Trough	Apr.	'77
<u>VOLUME 3</u>				
<u>Atlantis II</u>	107-6	Deep South Atlantic	Mar, Apr.	'80
	107-7	Deep South Atlantic	May	'80
<u>Gillis</u>	104	Kane Fracture Zone	Sept.	'78
<u>KNORR</u>	79	Kane Fracture Zone	June.	'80
<u>VULCAN</u>	5	Far South Atlantic	Late	'80

TABLE 3

COMPUTER LISTING OF W.H.O.I. DREDGES,  
ARRANGED BY MARSDEN SQUARES.

\*\*\*\*\*  
\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 17:25 NOV 02, '81\*\*\*\*\*  
\*\*\*\*\*PAGE 1  
\*\*WHCI\*\*

SHIP	CRUISE	LEG	STATION	NUMBER	VICE	DATE	YR	MODE	LATITUDE	LONGITUDE	TYPE	SQUARE	NUMBER	DEPTH	DREDGE	OR	SAMPLE	WEIGHT	PROV.	PHYSIO- GRAPHIC	ROCK	OR	SED.	VITA	TYPE	CODE	REMARKS	
MARSDEN SQUARE # 2																												
ALL	20	2	0013	0000	8	66	310	0	20.0°N	16	56.0°W	1	2.06	0013	5175.	5155.	0004	19	0000	0								
ALL	20	2	0014	0000	8	66	310	0	24.0°N	16	55.0°W	1	2.06	0014	3450.	2365.	0002	19	0000	0								
ALL	60	6	0014	0000	8	71	624	0	50.0°N	18	17.0°W	9	2.08	0014	2800.	2519.	5006	19	0000	0								
ALL	60	6	0018	0000	8	71	626	0	90.0°N	17	17.0°W	9	2.07	0018	5675.	5186.	5006	19	0000	0								
ALL	60	6	0019	0000	8	71	626	0	90.0°N	17	19.0°W	9	2.07	0019	5960.	5186.	0023	19	0000	0								
ALL	60	6	0020	0000	8	71	626	1	30.0°N	17	18.0°W	9	2.07	0020	3996.	3558.	5006	19	0000	0								
ALL	60	6	0021	0000	8	71	626	2	40.0°N	17	20.0°W	9	2.07	0021	2237.	1714.	0045	19	0000	0								
ALL	60	6	0022	0000	8	71	627	1	80.0°N	17	2.0°W	9	2.07	0022	4243.	4034.	0302	19	0000	0								
ALL	60	6	0023	0000	8	71	627	1	90.0°N	17	8.0°W	9	2.07	0023	4417.	3938.	2506	19	0000	0								

## MARSDEN SQUARE # 3

ALL	20	2	0024	0000	8	66	318	0	50.2°N	29	20.2°W	2	3.09	0024	3025.	1875.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0025	0000	8	66	318	0	51.8°N	29	20.3°W	2	3.09	0025	2345.	1590.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0026	0000	8	66	318	1	1.0°N	29	18.5°W	2	3.19	0026	2410.	1875.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0027	0000	8	66	318	1	0.0°N	29	17.0°W	2	3.19	0027	1925.	1540.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0028	0000	7	66	319	0	56.4°N	29	19.8°W	2	3.09	0028	205.	225.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0029	0000	7	66	319	0	56.1°N	29	22.1°W	2	3.09	0029	0.	0.	0300	99	0000	0	ST	PAULS	RX				
ALL	20	2	0030	0000	7	66	319	0	56.1°N	29	21.9°W	2	3.09	0030	28.	47.	0300	99	0000	0	ST	PAULS	RX				
ALL	20	2	0031	0000	7	66	319	0	56.0°N	29	21.8°W	2	3.09	0031	160.	120.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0035	0000	8	66	321	1	5.0°N	29	42.5°W	9	3.19	0035	3665.	2360.	0300	99	0000	0	ST	PAULS	RX				
ALL	20	2	0036	0000	8	66	321	0	58.1°N	29	25.7°W	2	3.09	0036	2550.	1500.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0037	0000	7	66	322	0	56.0°N	29	22.4°W	2	3.09	0037	115.	80.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0038	0000	7	66	322	0	55.3°N	29	22.5°W	2	3.09	0038	485.	135.	0300	99	0000	0	ST	PAULS	RX				
ALL	20	2	0039	0000	8	66	322	0	49.7°N	29	25.7°W	2	3.09	0039	2625.	1875.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0040	0000	8	66	322	0	52.8°N	29	26.3°W	2	3.09	0040	1590.	1410.	0300	99	0000	0	ST	PAULS	RX				
ALL	20	2	0041	0000	8	66	323	0	56.9°N	29	24.3°W	2	3.09	0041	1480.	1160.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0042	0000	8	66	323	0	49.4°N	29	23.0°W	2	3.90	0042	2910.	2110.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0043	0000	8	66	323	1	2.6°N	29	19.5°W	2	3.19	0043	3200.	2020.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0044	0000	8	66	324	0	51.2°N	29	14.0°W	2	3.09	0044	3095.	2360.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0045	0000	8	66	324	1	2.0°N	29	26.6°W	2	3.19	0045	3380.	2560.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0046	0000	8	66	324	1	2.7°N	29	21.9°W	2	3.19	0046	3490.	2620.	0300	99	0000	0	ST	PAULS	RX				
ALL	20	2	0047	0000	8	66	325	0	47.6°N	29	28.3°W	2	3.09	0047	3570.	2910.	0000	99	0000	0	ST	PAULS	RX				
ALL	20	2	0048	0000	8	66	325	0	54.4°N	29	29.0°W	2	3.09	0048	3170.	2550.	0000	99	0000	0	ST	PAULS	RX				
CHN	35	2	0007	0000	8	63	37	0	54.0°N	29	23.0°W	1	3.09	0007	1109.	1109.	0300	15	0000	0	ST	PAULS	RX				
CHN	35	2	0008	0000	8	63	38	0	57.0°N	28	22.0°W	1	3.08	0008	3219.	3219.	0000	15	0000	0	ST	PAULS	RX				
CHN	35	2	0015	0000	7	63	317	0	56.4°N	29	21.5°W	1	3.09	0015	300.	300.	0000	14	0000	0	ST	PAULS	RX				
CHN	35	2	0016	0000	7	63	317	0	55.6°N	29	22.5°W	1	3.09	0016	113.	113.	0000	14	0000	0	ST	PAULS	RX				
CHN	35	2	0018	0000	8	63	318	0	55.0°N	29	20.0°W	1	3.09	0018	1113.	1113.	0000	14	0000	0	ST	PAULS	RX				

STATION DATA RETRIEVAL  
DATE: 17:25 NOV 02, '81

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PAGE 2  
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DATE: 1965 NOV 02 01																		
SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR/MO/D	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR FND	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK CP	VITA SED.	REMARKS
MARS DEN SQUARE # 4																		
ATI	20	2	0032	0000	8	66 320	0 49.5°N	30 7.0°W	9	4.00 0032	3570.	2455.	0000	99	0000	0	ST PAULS RX	
ATI	20	2	0033	0000	8	66 320	0 54.0°N	30 6.5°W	9	4.00 0033	2720.	2300.	0000	99	0000	0	ST PAULS RX	
ATI	20	2	0034	0000	8	66 321	0 55.0°N	30 17.0°W	9	4.00 0034	2815.	2470.	0000	99	0000	0	ST PAULS RX	
CHN	35	2	0001	0000	8	63 3 5	0 33.0°N	32 47.0°W	1	4.02 0001	4291.	4291.	0000	15	0000	0		
CHN	35	2	0002	0000	8	63 3 5	0 34.0°N	32 55.0°W	1	4.02 0002	3939.	3939.	0000	15	0000	0		
CHN	35	2	0019	0000	7	63 319	0 44.0°N	34 47.0°W	1	4.04 0019	4072.	4072.	0000	6	0000	0		
MARS DEN SQUARE # 5																		
ATI	20	3	0058	0000	8	66 419	9 36.0°N	40 35.5°W	9	5.90 0058	3340.	2475.	0000	19	0000	0		
CHN	35	3	0020	0000	12	63 4 0	7 33.0°N	44 59.0°W	1	5.74 0020	4663.	4663.	0000	6	0000	0		
MARS DEN SQUARE # 6																		
CHN	35	3	0021	0000	12	63 4 0	5 33.0°N	51 21.0°W	1	6.51 0021	91.	91.	0000	2	0000	0		
CHN	35	3	0022	0000	12	63 4 0	5 28.0°N	51 38.0°W	1	6.51 0022	72.	72.	0000	2	0000	0		
CHN	35	3	0023	0000	12	63 4 0	5 32.2°N	51 33.0°W	1	6.51 0023	62.	62.	0000	2	0000	0		
CHN	35	3	0024	0000	12	63 4 0	5 31.0°N	52 7.0°W	1	6.52 0024	57.	57.	0000	2	0000	0		
CHN	35	3	0025	0000	12	63 4 0	5 28.0°N	52 19.0°W	1	6.52 0025	41.	41.	0000	2	0000	0		
CHN	35	3	0026	0000	12	63 4 0	5 39.0°N	52 39.0°W	1	6.52 0026	38.	38.	0000	2	0000	0		
CHN	35	3	0027	0000	12	63 4 0	6 6.0°N	55 12.5°W	1	6.55 0027	26.	26.	0000	2	0000	0		
CHN	35	3	0028	0000	12	63 4 0	6 20.0°N	55 4.0°W	1	6.65 0028	20.	200.	0000	20	0000	0		
CHN	35	3	0030	0000	12	63 4 0	6 41.0°N	54 52.5°W	1	6.64 0030	38.	38.	0000	2	0000	0		
CHN	35	3	0031	0000	12	63 4 0	6 52.0°N	54 46.0°W	1	6.64 0031	53.	53.	0000	2	0000	0		
CHN	35	3	0032	0000	12	63 4 0	7 4.0°N	54 39.0°W	1	6.74 0032	70.	70.	0000	2	0000	0		
MARS DEN SQUARE # 22																		
ATI	20	2	0016	0000	8	66 311	0 13.0°N	17 9.0°W	1	22.07 0015	5000.	4045.	0000	19	0000	0		
MARS DEN SQUARE # 31																		
ATI	15	4	0556	0000	10	65 228	9 .0°N	51 5.0°E	9	31.91 0556	977.	0.	1136	4	0000	0		
ATI	15	4	0557	0000	10	65 3 1	9 .0°N	51 25.0°E	9	31.91 0557	2580.	0.	4560	4	0000	0		
CHN	43	1	0008	0000	8	64 4 4	5 35.5°N	54 3.0°E	1	31.54 0004	4711.	3285.	5.4K	19	0000	0		

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	LATITUDE	LONGITUDE	TYPE	FIX	MARS- DEN	SQUARE	CORE OR DREDGE	DEPTH	END	LENGTH	DRIDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SFD. VITA TYPE	REMARKS								
																					CORE OR DREDGE	DEPTH	END	LENGTH	DRIDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SFD. VITA TYPE	REMARKS
MARS DEN SQUARE # 41																												
ATI	20	1	0001	0000	8	66 216	10 51.0°N	43 41.0°W	1	41.03	0001	5100.	3375.	1000			19	0000	0									
ATI	20	1	0003	0000	8	66 216	11 5.0°N	43 42.0°W	1	41.13	0003	4750.	3420.	0000			19	0000	0									
ATI	20	1	0004	0000	8	66 217	11 16.0°N	43 45.0°W	1	41.13	0004	4365.	3950.	0000			19	0000	0									
ATI	20	1	0005	0000	8	66 218	11 15.0°N	43 47.0°W	1	41.13	0005	3605.	3035.	0000			19	0000	0									
ATI	20	1	0006	0000	8	66 218	11 19.0°N	43 41.0°W	1	41.13	0006	4460.	3095.	0000			19	0000	0									
ATI	20	1	0007	0000	8	66 218	10 35.0°N	43 45.0°W	1	41.03	0007	3000.	2270.	0000			19	0000	0									
ATI	20	1	0008	0000	8	66 219	11 0°N	44 5.0°W	1	41.14	0008	4790.	3910.	0000			19	0000	0									
ATI	20	1	0009	0000	8	66 220	10 45.0°N	43 18.0°W	1	41.03	0009	4990.	3490.	0000			19	0000	0									
ATI	20	3	0059	0000	8	66 422	10 41.0°N	42 32.0°W	9	41.02	0059	4910.	4140.	0000			19	0000	0									
ATI	42	1	0018	0000	8	68 713	19 27.8°N	46 5.6°W	3	41.96	0001	2861.	2861.	010K			16	0000	0									
ATI	42	1	0019	0000	8	68 713	19 32.3°N	46 6.1°W	1	41.96	0002	2278.	2278.	7.5K			16	0000	0									
CHN	75	2	0021	0000	8	671121	12 50.3°N	44 42.2°W	10	41.24	0003	2126.	1585.	8.8K			14	0000	0									
CHN	75	2	0022	0000	8	671121	12 52.7°N	44 50.9°W	10	41.24	0004	4630.	4438.	340G			16	0000	0									
CHN	75	2	0023	0000	8	671121	12 58.4°N	44 51.3°W	10	41.34	0005	4581.	4515.	227G			16	0000	0									
CHN	75	2	0025	0000	8	671122	12 58.8°N	44 58.5°W	10	41.34	0007	2333.	3162.	012K			14	0000	0									
CHN	75	2	0026	0000	8	671122	12 55.8°N	44 59.8°W	10	41.25	0008	2784.	2841.	009K			14	0000	0									
CHN	75	2	0027	0000	8	671122	12 58.0°N	44 41.1°W	10	41.24	0009	3256.	3049.	454G			14	0000	0									
MARS DEN SQUARE # 42																												
CHN	36	1	0017	0000	8	63 630	16 43.0°N	58 6.0°W	1	42.68	0005	5065.	4274.	051K			17	0000	0									
MARS DEN SQUARE # 43																												
ATI	11	2	0028	0000	8	64 7 9	19 59.5°N	65 1.7°W	5	43.95	0006	7942.	7662.	5.9K			5	0000	0									
ATI	11	2	0032	0000	8	64 711	19 17.7°N	65 10.4°W	5	43.95	0010	7023.	6729.	030K			5	0000	0									
ATI	11	2	0033	0000	8	64 711	19 16.9°N	65 5.3°W	5	43.95	0011	6749.	6513.	007K			5	0000	0									
ATI	11	2	0034	0000	8	64 712	19 4.6°N	66 9.0°W	5	43.96	0012	4983.	4105.	2.9K			5	0000	0									
CHN	11	3	0038	0000	7	60 222	17 45.0°N	64 55.0°W	4	43.74	0038	755.	942.	2.1K			3	0000	0									
CHN	19	1	0002	0000	8	61 628	19 58.4°N	66 25.2°W	5	43.96	0002	6987.	6594.	567G			17	0000	0									
CHN	19	1	0003	0000	8	61 628	19 58.4°N	66 25.7°W	5	43.96	0003	6968.	6544.	020K			17	0000	0									
CHN	19	1	0010	0000	8	61 630	20 0°N	66 32.5°W	5	43.06	0010	6563.	6436.	010K			17	0000	0									
CHN	19	1	0011	0000	8	61 7 1	20 7.9°N	66 28.3°W	5	43.06	0011	3115.	3176.	454G			17	0000	0									
CHN	19	1	0013	0000	8	61 7 2	20 10.0°N	66 19.0°W	5	43.06	0013	6264.	6178.	7.7K			17	0000	0									
**COMMENTS**																												
CHN	46	1	0002	0000	8	65 222	18 49.9°N	67 19.3°W	5	43.87	0001	3572.	3288.	005K			25	0000	0									
CHN	46	1	0003	0000	8	65 222	18 47.5°N	67 22.8°W	5	43.87	0002	4830.	4801.	004K			25	0000	0									
CHN	46	1	0005	0000	8	65 223	18 49.2°N	67 28.6°W	5	43.87	0003	4318.	3723.	680G			25	0000	0									
CHN	57	1	0027	0000	8	66 4 4	19 58.8°N	64 15.2°W	5	43.94	0002	6710.	6572.	227G			17	0000	0									
CHN	57	1	0033	0000	8	66 4 7	19 47.8°N	67 8.7°W	5	43.97	0004	7912.	7667.	340G			17	0000	0									
CHN	57	1	0034	0000	7	66 4 7	19 58.0°N	68 4.0°W	5	43.98	0003	5690.	5612.	004K			17	0000	0									
CHN	75	1	0003	0000	8	671029	15 29.0°N	64 5.0°W	4	43.53	0001	1086.	1215.	454G			13	0000	0									

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SHIP	CRUISE	LEG	STATION	SAMPLE DE- NUMBER	DATE VICE	YR/MO/DA	LATITUDE	LONGITUDE	FIX	DEN	MARS- SQUARE	CORE NR DREDGE	DEPTH	OR	LENGTH	DREDGE	PHYSIO- GRAPHIC	ROCK								
CHN	75	1	0005	0000	8	671030	14	42.5°N	63	36.5°W	4	43.43	0002	1239.	1454.	6.6K	13	0000	0							
MARSDEN SQUARE # 43																										
GNS	97	0	0006	0000	7	67 315	17	47.1°N	76	17.0°W	1	44.76	0006	738.	0.	450G	3	0000	0							
GNS	97	0	0016	0000	7	67 316	17	51.6°N	77	4.5°W	1	44.77	0016	10.	0.	450G	1	0000	0							
GNS	97	0	0018	0000	7	67 316	17	46.0°N	77	4.3°W	1	44.77	0018	20.	0.	500G	1	0000	0							
GNS	97	0	0020	0000	7	67 316	17	36.8°N	77	4.0°W	1	44.77	0020	25.	0.	567G	1	0000	0							
GNS	97	0	0021	0000	7	67 316	17	40.3°N	77	7.9°W	1	44.77	0021	0.	0.	254G	1	0000	0							
GNS	97	0	0024	0000	7	67 317	17	38.1°N	76	50.1°W	1	44.77	0024	0.	0.	925G	1	0000	0							
GNS	97	0	0026	0000	7	67 317	17	43.0°N	76	54.0°W	1	44.76	0026	0.	0.	450G	1	0000	0							
GNS	97	0	0030	0000	7	67 317	18	4.1°N	76	15.0°W	1	44.86	0030	698.	0.	908G	1	0000	0							
GNS	97	0	0033	0000	7	67 317	18	1.7°N	76	16.1°W	1	44.86	0033	322.	0.	450G	3	0000	0							
GNS	97	0	0038	0000	7	67 318	17	55.0°N	77	5.2°W	1	44.76	0038	460.	0.	790G	3	0000	0							
GNS	97	0	0042	0000	7	67 320	18	.5°N	77	57.1°W	1	44.87	0042	18.	0.	340G	1	0000	0							
GNS	97	0	0043	0000	7	67 321	18	.6°N	77	58.0°W	1	44.87	0043	42.	0.	001K	1	0000	0							
GNS	97	0	0044	0000	7	67 321	18	.5°N	77	59.1°W	1	44.87	0044	597.	0.	675G	3	0000	0							
GNS	97	0	0047	0000	7	67 321	17	55.5°N	77	52.4°W	1	44.77	0047	0.	0.	001K	3	0000	0							
GNS	97	0	0048	0000	7	67 321	17	52.5°N	77	50.0°W	1	44.77	0048	0.	0.	1.6K	3	0000	0							
GNS	97	0	0049	0000	7	67 321	17	52.1°N	77	48.1°W	1	44.77	0049	0.	0.	1.8K	3	0000	0							
GNS	97	0	0050	0000	7	67 321	17	49.8°N	77	45.0°W	1	44.77	0050	0.	0.	900G	3	0000	0							
GNS	97	0	0066	0000	7	67 322	17	50.0°N	77	39.8°W	1	44.77	0066	0.	0.	900G	3	0000	0							
KNR	54	2	0002	0000	8	76 115	18	2.6°N	81	43.1°W	9	44.81	0000	4795.	4824.	089K	17	0000	0							
**COMMENTS**																										
ANGUS CAMERA FRAME RECOVERED THIS RASALT																										
KNR	54	2	0011	0000	8	76 118	18	.1°N	81	36.8°W	9	44.81	0003	2855.	2597.	042K	17	0000	0							
KNR	54	2	0012	0000	8	76 119	18	3.6°N	81	37.3°W	9	44.81	0004	3484.	3728.	016K	17	0000	0							
KNR	54	2	0013	0000	8	76 119	18	5.9°N	81	42.2°W	9	44.81	0005	4514.	4619.		17	0000	0							
KNR	54	2	0014	0000	8	76 119	18	3.4°N	81	41.9°W	9	44.81	0006	4324.	4369.	1.8K	17	0000	0							
KNR	54	2	0023	0000	8	76 123	18	4.4°N	81	47.8°W	9	44.81	0008	4892.	5103.	086K	17	0000	0							
KNR	54	2	0024	0000	8	76 123	18	7.0°N	81	46.8°W	9	44.81	0009	5011.	5066.	061K	17	0000	0							
KNR	54	2	0026	0000	8	76 124	18	4.4°N	81	48.8°W	9	44.81	0010	4001.	4459.	355K	17	0000	0							
KNR	54	2	0027	0000	8	76 124	18	1.2°N	81	48.6°W	9	44.81	0011	4413.	4369.	084K	17	0000	0							
KNR	54	2	0029	0000	8	76 125	18	3.6°N	81	44.9°W	9	44.81	0012	4956.	4683.	019K	17	0000	0							
KNR	54	2	0030	0000	8	76 125	18	5.4°N	81	44.8°W	9	44.81	0013	5411.	4892.	026K	17	0000	0							
KNR	54	2	0033	0000	8	76 126	18	5.8°N	81	42.6°W	9	44.81	0014	4874.	4911.	047K	17	0000	0							
KNR	54	2	0037	0000	8	76 128	18	5.7°N	81	46.6°W	9	44.81	0017	5157.	4403.	304K	17	0000	0							
KNR	54	2	0039	0000	8	76 129	18	6.9°N	81	45.4°W	9	44.81	0018	5502.	5157.	034K	17	0000	0							
KNR	54	2	0040	0000	8	76 129	18	1.6°N	81	46.3°W	9	44.81	0019	4828.	4892.	034K	17	0000	0							
KNR	54	2	0042	0000	8	76 130	17	58.0°N	81	47.6°W	9	44.71	0020	4630.	4459.	195K	17	0000	0							
KNR	54	2	0044	0000	8	76 130	18	1.6°N	81	44.9°W	9	44.81	0022	4610.	4486.	136K	17	0000	0							
KNR	54	2	0046	0000	8	76 131	17	59.8°N	81	45.5°W	9	44.71	0023	4623.	4397.	206K	17	0000	0							
KNR	54	2	0047	0000	8	76 131	18	6.0°N	81	47.6°W	9	44.81	0024	5075.	4499.	062K	17	0000	0							
KNR	54	2	0048	0000	8	76 131	18	6.9°N	81	46.6°W	9	44.81	0025	5212.	4568.	022K	17	0000	0							
KNR	54	2	0051	0000	8	76 2 2	18	7.3°N	81	43.0°W	9	44.81	0027	5684.	5575.	072K	17	0000	0							

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 STATION DATA RETRIEVAL  
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 SAMPLE DE- DATE  
 NUMBER VICE YR/MO/DA  
 SHIP CRUISE LEG STATION  
 LATITUDE LONGITUDE  
 FIX DEN CORE OR  
 TYPE SQUARE NUMBER DEPTH  
 COPE LENGTH OR  
 DREDGE OR  
 PHYSIO- OR  
 GRAPHIC SED. VITA  
 TYPE CODE REMARKS

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## MARSDEN SQUARE # 44

KNR	54	2	0052	0000	8	76	2	2	18	7.3°N	81	46.0°W	9	44.81	0028	5393.	5474.	007K	17	0000	C
KNR	54	2	0054	0000	8	76	2	3	17	59.1°N	81	34.4°W	9	44.71	0029	2047.	1956.	002K	17	0000	C
KNR	54	2	0058	0000	8	76	2	3	18	7.6°N	81	43.8°W	9	44.81	0031	5329.	4965.	063K	17	0000	C
KNR	54	2	0062	0000	8	76	2	4	18	25.0°N	81	40.8°W	1	44.81	0033	4665.	3913.	048K	17	0000	C
KNR	54	2	0063	0000	8	76	2	5	18	35.7°N	81	41.3°W	9	44.81	0034	5123.	4628.	145K	17	0000	C
KNR	54	3	0067	0000	8	76	2	10	18	38.7°N	81	12.6°W	9	44.81	0035	4118.	3438.	4.3K	17	0000	C
KNR	54	3	0071	0000	8	76	2	11	18	45.9°N	81	35.0°W	9	44.81	0037	5292.	4628.	090K	17	0000	C
KNR	54	3	0073	0000	8	76	2	12	18	56.6°N	81	31.3°W	9	44.81	0038	4701.	4568.	036K	17	0000	C
KNR	54	3	0074	0000	8	76	2	12	18	49.0°N	81	32.8°W	9	44.81	0039	5657.	3529.	062K	17	0000	C
KNR	54	3	0090	0000	8	76	2	16	18	37.0°N	81	44.0°W	1	44.81	0090	4755.	5283.	072K	17	0000	C

\*\*COMMENTS\*\*  
 ANGUS CAMERA FRAME RECOVERED THIS BASALT

## MARSDEN SQUARE # 45

DCE	23	1	0001	0000	8	77	4	7	18	19.3°N	81	23.0°W	9	45.81	0001	4386.	4386.		16	0000	C
DCE	23	1	0004	0000	8	77	4	9	17	56.5°N	81	45.0°W	1	45.71	0004	4846.	4943.		16	0000	C
DCE	23	1	0005	0000	8	77	4	9	17	54.6°N	81	41.0°W	9	45.71	0005	5516.	4346.		16	0000	C
DCE	23	1	0008	0000	8	77	4	10	17	51.0°N	81	52.0°W	1	45.71	0008	3268.	3268.		16	0000	C
DCE	23	1	0009	0000	8	77	4	10	17	48.2°N	81	54.2°W	9	45.71	0009	5026.	3916.		16	0000	C
DCE	23	1	0011	0000	8	77	4	11	18	10.7°N	81	46.0°W	9	45.81	0011	5640.	5420.		16	0000	C
DCE	23	1	0012	0000	8	77	4	11	18	5.1°N	81	44.7°W	9	45.81	0012	5667.	5132.		16	0000	C
DCE	23	1	0013	0000	8	77	4	12	18	10.4°N	81	37.2°W	9	45.81	0013	4455.	4495.		16	0000	C
DCE	23	1	0014	0000	8	77	4	12	18	13.1°N	81	32.2°W	9	45.81	0014	3373.	3373.		16	0000	C
DCE	23	1	0016	0000	8	77	4	12	17	53.0°N	81	50.0°W	1	45.71	0016	4123.	3916.		16	0000	C
DCE	23	1	0017	0000	8	77	4	13	18	16.9°N	81	51.3°W	9	45.81	0017	3989.	3445.		16	0000	C

\*\*COMMENTS\*\*  
 ANGUS CAMERA FRAME RECOVERED THIS BASALT

## MARSDEN SQUARE # 68

CHN	43	1	0006	0000	8	64	3	26	17	38.0°N	40	8.0°E	5	68.70	0003	1378.	1194.	002G	16	0000	C
CHN	43	1	0070	0000	8	64	6	5	16	4.0°N	41	25.0°E	5	68.61	0025	1175.	1136.	707G	21	0000	C
CHN	43	1	0073	0000	8	64	6	9	17	50.0°N	40	12.0°E	5	68.70	0028	1203.	1203.	227G	21	0000	C

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SHIP CRUISE LEG STATION										SAMPLE DE- DATE		LATITUDE LONGITUDE		FIX DENI		MARS- CORE OR		CORE LENGTH OR		DREDGE OR		PHYSIO- ROCK		SED. VITA		REMARKS	
										NUMBER VICE YR MODA				TYPE SQUARE		DREDGE OR		END		SAMPLE WEIGHT		GRAPHIC PROV.		TYPE CODE			
CHN	100	3	0006	0000	8	71 3 5	19 38.4°N	38 36.2°E	9	69.98	0001	1831.	1739.	2275	16	0000	0										
MARS DEN SQUARE # 69																											
CHN	21	1	0008	0000	8	61 9 8	29 49.0°N	28 40.0°W	1	75.98	0008	462.	462.	4540	12	0000	0										
CHN	21	1	0010	0000	8	61 9 8	29 49.0°N	28 40.0°W	1	75.98	0010	349.	340.	1130	12	0000	0										
CHN	21	1	0011	0000	8	61 9 8	29 49.0°N	28 40.0°W	1	75.98	0011	321.	317.	6.8K	12	0000	0										
CHN	21	1	0013	0000	8	61 9 8	29 47.0°N	28 19.0°W	1	75.98	0013	589.	591.	3.6K	12	0000	0										
CHN	21	1	0014	0000	8	61 9 8	29 47.0°N	28 20.0°W	1	75.98	0014	393.	358.	003K	12	0000	0										
CHN	21	1	0015	0000	8	61 9 8	29 46.3°N	28 19.0°W	1	75.98	0015	871.	832.	3.3K	12	0000	0										
MARS DEN SQUARE # 75																											
MARS DEN SQUARE # 77																											
AIH	78	2	0001	0000	8	731015	23 13.0°N	44 43.0°W	9	77.34	0001	3090.	2325.	0027	15	0000	0										
AIH	78	2	0002	0000	8	731015	23 14.0°N	44 42.0°W	9	77.34	0002	2965.	2360.	0006	15	0000	0										
AIH	78	2	0003	0000	8	731015	23 13.0°N	44 55.0°W	9	77.34	0003	3990.	3380.	0200	15	0000	0										
AIH	78	2	0007	0000	8	731019	22 59.0°N	45 42.0°W	9	77.25	0007	3445.	3000.	0016	15	0000	0										
AIH	78	2	0008	0000	8	731019	22 58.0°N	45 51.0°W	9	77.25	0008	3570.	3200.	0110	15	0000	0										
AIH	78	2	0009	0000	8	731020	22 58.0°N	45 56.0°W	9	77.25	0009	3860.	2910.	0023	15	0000	0										
AIH	78	2	0010	0000	8	731020	23 0.0°N	56 13.0°W	9	77.36	0010	3310.	2780.	0009	15	0000	0										
AIH	78	2	0011	0000	8	731021	23 3.0°N	47 4.0°W	9	77.36	0011	4335.	3710.	0001	15	0000	0										
AIH	78	2	0012	0000	8	731022	23 11.0°N	48 46.0°W	9	77.38	0012	4830.	3880.	0015	15	0000	0										
AIH	78	2	0013	0000	8	731023	23 15.0°N	49 11.0°W	9	77.39	0013	4995.	4140.	0023	15	0000	0										
AIH	78	2	0014	0000	8	731023	23 16.0°N	49 13.0°W	9	77.34	0014	4910.	3705.	0025	15	0000	0										
AIH	78	20	0006	0000	8	731017	23 4.0°N	45 10.0°W	9	77.35	0006	3255.	2435.	0013	15	0000	0										
AIH	92	2	0028	0000	8	7510 5	23 2.8°N	45 4.5°W	12	77.35	0004	2278.	1701.	065K	16	0000	0										
AIH	92	2	0029	0000	8	7510 5	23 2.6°N	45 1.0°W	12	77.35	0005	2889.	2475.	100K	16	0000	0										
AIH	92	2	0030	0000	8	7510 6	23 2.4°N	44 53.4°W	12	77.34	0006	3231.	3554.	037K	16	0000	0										
AIH	92	2	0031	0000	8	7510 6	23 1.8°N	44 55.4°W	12	77.34	0007	3589.	3516.	160K	16	0000	0										
AIH	96	3	0001	0000	8	7711 7	23 48.3°N	46 34.5°W	0	77.36	0001	3918.	2969.	106K	19	0000	0										
AIH	96	3	0002	0000	8	7711 8	23 50.0°N	46 34.3°W	0	77.36	0002	4569.	3462.	003K	19	0000	0										
AIH	96	3	0003	0000	8	7711 8	23 46.5°N	46 34.5°W	0	77.36	0003	3022.	2782.	011K	19	0000	0										
AIH	96	3	0004	0000	8	7711 8	23 51.1°N	46 23.3°W	0	77.36	0004	5095.	3326.	063K	19	0000	0										
AIH	96	3	0006	0000	8	7711 9	23 52.9°N	46 15.8°W	0	77.36	0006	5505.	4798.	104K	19	0000	0										
AIH	96	3	0007	0000	8	7711 9	23 55.1°N	46 14.5°W	0	77.36	0007	4250.	3573.	046K	19	0000	0										
AIH	96	3	0008	0000	8	7711 9	24 7.1°N	46 11.2°W	0	77.46	0008	2860.	2212.	173K	19	0000	0										
AIH	96	3	0009	0000	8	771116	23 36.5°N	44 28.7°W	0	77.34	0009	3982.	2737.	500G	19	0000	0										
AIH	96	3	0010	0000	8	771117	23 38.3°N	44 29.2°W	0	77.34	0010	2578.	2287.	029K	19	0000	0										
AIH	96	3	0012	0000	8	771117	23 31.1°N	43 54.4°W	0	77.33	0012	4039.	3326.	088K	19	0000	0										
AIH	96	3	0013	0000	8	771118	23 36.0°N	44 57.9°W	0	77.34	0013	6180.	4049.	096K	19	0000	0										
AIH	96	3	0014	0000	8	771118	23 36.2°N	45 1.6°W	0	77.35	0014	3611.	2700.	134K	19	0000	0										
AIH	96	3	0015	0000	8	771118	23 32.7°N	45 5.4°W	0	77.35	0015	2044.	1800.	031K	19	0000	0										







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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR:MODA	LATITUDE	LONGITUDE	FIX	MARS- DEN	CORE OR DREDGE	CORE NUMBER	DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
MARS DEN SQUAPE # 112																			
AII	73	1	0024	0000	8	721127	36 45.5°N	33 21.2°W	11	112.63	0008	1745.	1477.	073G	16	0000	0		
AII	73	1	0038	0000	8	7212 6	36 29.7°N	33 23.9°W	11	112.63	0009	2626.	2626.	8.7K	16	0000	0		
AII	73	1	0047	0000	8	7212 9	36 30.6°N	33 25.3°W	11	112.63	0012	2781.	2250.	017K	16	0000	0		
AII	73	1	0050	0000	8	7212 9	36 29.3°N	33 39.0°W	11	112.63	0013	2589.	2589.	011K	16	0000	0		
AII	77	2	0019	0000	8	73 811	36 32.5°N	33 34.0°W	1	112.63	0002	2713.	2713.	6.8K	16	0000	0		
AII	77	2	0023	0000	8	73 813	36 34.5°N	33 37.0°W	1	112.63	0003	2913.	2900.	4.9K	16	0000	0		
AII	77	2	0026	0000	8	73 814	36 25.0°N	33 46.0°W	10	112.63	0004	2671.	2671.	016K	16	0000	0		
AII	77	2	0028	0000	8	73 814	36 34.0°N	33 37.0°W	11	112.63	0005	2738.	2738.		16	0000	0		
AII	77	2	0037	0000	8	73 820	36 43.0°N	33 20.0°W	11	112.63	0006	2437.	2437.	228K	16	0000	0		
AII	77	2	0038	0000	8	73 820	36 43.0°N	33 20.5°W	11	112.63	0007	2443.	2443.	120K	16	0000	0		
AII	77	2	0045	0000	8	73 820	36 35.0°N	33 42.5°W	10	112.63	0008	2500.	2500.	570G	16	0000	0		
AII	77	2	0048	0000	8	73 821	36 37.0°N	33 31.0°W	11	112.63	0009	2437.	2437.	038K	19	0000	0		
AII	77	2	0052	0000	8	73 822	36 35.0°N	33 31.5°W	11	112.63	0010	2437.	2437.	120K	16	0000	0		
AII	77	2	0058	0000	8	73 823	36 27.5°N	33 35.0°W	11	112.63	0011	2231.	2231.	029K	16	0000	0		
AII	77	2	0062	0000	8	73 824	36 27.0°N	33 55.0°W	10	112.63	0012	1408.	1408.	013K	14	0000	0		
AII	77	2	0063	0000	8	73 824	36 26.0°N	33 53.5°W	10	112.63	0013	1876.	1876.	024K	14	0000	0		
AII	77	2	0067	0000	8	73 826	36 26.5°N	33 40.0°W	11	112.63	0014	2616.	2616.	035K	16	0000	0		
AII	77	2	0070	0000	8	73 826	36 26.5°N	33 41.0°W	9	112.63	0015	2437.	2437.	015K	16	0000	0		
AII	77	2	0071	0000	8	73 827	36 24.4°N	33 40.8°W	9	112.63		2500.	2700.	018K	16	0000	0		
**COMMENTS**																			
ANGUS CAMERA FRAME RECOVERED THIS BASALT																			
AII	77	2	0076	0000	8	73 828	36 26.5°N	33 38.5°W	11	112.63	0016	2518.	2518.	198K	16	0000	0		
GIL	103	1	0001	0000	8	78 729	36 47.6°N	33 18.3°W	9	112.63	0001	1968.	1968.		16	0000	0		
GIL	103	1	0004	0000	8	78 8 1	36 26.6°N	33 37.6°W	11	112.63	0004	2616.	2440.		16	0000	0		
GIL	103	1	0005	0000	8	78 8 2	36 25.7°N	33 38.9°W	11	112.63	0005	2627.	2551.		16	0000	0		
GIL	103	1	0006	0000	8	78 8 2	36 26.5°N	33 41.0°W	11	112.63	0006	2400.	2400.		16	0000	0		
GIL	103	1	0008	0000	8	78 8 3	36 28.9°N	33 40.0°W	11	112.63	0008	2485.	2477.		16	0000	0		
GIL	103	1	0009	0000	8	78 8 4	36 27.8°N	33 37.8°W	11	112.63	0009	2590.	2230.		16	0000	0		
GIL	103	1	0016	0000	8	78 813	36 46.8°N	33 16.7°W	11	112.63	0016	2617.	2617.		16	0000	0		
GIL	103	1	0020	0000	8	78 815	36 46.4°N	33 17.3°W	11	112.63	0020	2694.	2694.		16	0000	0		
GIL	103	1	0021	0000	8	78 816	36 46.5°N	33 16.6°W	11	112.63	0021	2627.	2589.		16	0000	0		
GIL	103	1	0022	4000	8	78 817	36 47.6°N	33 17.4°W	11	112.63	0024	2484.	2250.		16	0000	0		
GIL	103	1	0023	0000	8	78 816	36 45.5°N	33 17.5°W	11	112.63	0023	2532.	2203.		16	0000	0		
GIL	103	1	0027	0000	8	78 817	36 27.1°N	33 40.9°W	11	112.63	0027	2231.	2276.		16	0000	0		
GIL	103	1	0029	0000	8	78 818	36 47.1°N	33 16.5°W	11	112.63	0029	2523.	2523.		16	0000	0		
GIL	103	1	0030	0000	8	78 818	36 45.5°N	33 15.7°W	11	112.63	0030	2100.	2100.		16	0000	0		
GIL	103	1	0032	0000	8	78 820	36 43.8°N	33 17.5°W	11	112.63	0032	2484.	2390.		16	0000	0		
GIL	103	1	0033	0000	8	78 820	36 46.8°N	33 15.8°W	11	112.63	0033	2674.	2334.		16	0000	0		
GIL	103	1	0035	0000	8	78 820	36 47.8°N	33 16.9°W	11	112.63	0035	2532.	2390.		16	0000	0		
GIL	103	1	0037	0000	8	78 821	36 27.2°N	33 38.6°W	11	112.63	0037	2579.	2560.		16	0000	0		
GIL	103	1	0038	0000	8	78 821	36 25.4°N	33 39.2°W	11	112.63	0038	2580.	2532.		16	0000	0		
GIL	103	1	0041	0000	8	78 823	36 26.6°N	33 95.2°W	11	112.63	0041	2532.	2457.		16	0000	0		
GIL	103	1	0043	0000	8	78 824	36 26.5°N	33 41.1°W	11	112.63	0043	2484.	2580.		16	0000	0		
GIL	103	1	0046	0000	8	78 824	36 26.5°N	33 41.1°W	11	112.63	0046	2484.	2250.		16	0000	0		
GIL	103	1	0047	0000	8	78 825	36 45.8°N	33 18.8°W	11	112.63	0047	2391.	1905.		16	0000	0		
KNR	42	2	0025	0000	8	74 629	36 56.7°N	33 9.1°W	9	112.63	0003	2993.	2963.	1.6K	19	0000	0		
KNR	42	2	0028	0000	8	74 630	36 54.9°N	33 9.8°W	9	112.63	0004	2889.	2608.	041K	19	0000	0		

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MARS DEN SQUARE # 112																		
KNR	42	2	0033	0000	8	74 7 2	36 57.0°N	33 7.9°W	9	112.63	0005	2908.	2533.	007K	19	0000	0	
KNR	42	2	0035	0000	8	74 7 3	36 56.4°N	33 8.1°W	9	112.63	0006	3041.	2685.	3.5K	19	0000	0	
KNR	42	3	0051	0000	8	74 7 15	36 36.1°N	33 24.8°W	9	112.63	0008	2599.	2174.	065K	19	0000	0	
KNR	42	3	0068	0000	8	74 7 17	36 50.8°N	33 23.3°W	9	112.63	0009	1564.	1465.	015K	19	0000	0	
KNR	42	3	0077	0000	8	74 7 18	36 36.9°N	33 27.6°W	9	112.63	0011	2137.	1763.	169K	19	0000	0	
KNR	42	3	0086	0000	8	74 7 19	36 38.4°N	33 19.5°W	9	112.63	0012	2901.	2740.	178K	16	0000	0	
KNR	42	3	0102	0000	8	74 7 22	36 50.8°N	33 19.7°W	9	112.63	0016	1603.	0.	005K	14	0000	0	
KNR	42	3	0108	0000	8	74 7 23	36 50.6°N	33 21.4°W	9	112.63	0017	1763.	1762.	014K	14	0000	0	
KNR	42	3	0110	0000	8	74 7 24	36 53.2°N	33 32.1°W	9	112.63	0018	1727.	1347.	2.4K	14	0000	0	
KNR	42	3	0112	0000	8	74 7 24	36 52.8°N	33 31.7°W	9	112.63	0019	1623.	1732.	0.5K	14	0000	0	
KNR	42	3	0117	0000	8	74 7 25	36 47.9°N	33 13.7°W	9	112.63	0020	1679.	1648.	1.8K	14	0000	0	
KNR	42	4	0121	0000	8	74 8 3	36 37.5°N	33 28.1°W	9	112.63	0021	1838.	1801.	101K	19	0000	0	
KNR	42	4	0122	0000	8	74 8 3	36 37.3°N	33 28.0°W	9	112.63	0022	1932.	1857.	064K	19	0000	0	
KNR	42	4	0129	0000	8	74 8 3	36 36.4°N	33 28.5°W	9	112.63	0024	2118.	2025.	075K	19	0000	0	
KNR	42	4	0130	0000	8	74 8 4	36 34.9°N	33 27.2°W	9	112.63	0025	2104.	2102.	073K	19	0000	0	
KNR	42	4	0131	0000	8	74 8 4	36 36.4°N	33 29.3°W	9	112.63	0026	2062.	2034.	019K	19	0000	0	
KNR	42	4	0137	0000	8	74 8 5	36 50.9°N	33 32.5°W	9	112.63	0027	1353.	1293.	069K	14	0000	0	
KNR	42	4	0145	0000	8	74 8 6	36 33.4°N	33 28.2°W	9	112.63	0029	2141.	2161.	075K	19	0000	0	
KNR	42	4	0146	0000	8	74 8 6	36 31.9°N	33 29.4°W	9	112.63	0030	2108.	1875.	172K	19	0000	0	
KNR	42	5	0156	0000	8	74 8 16	36 50.8°N	33 32.2°W	9	112.63	0031	1587.	1279.	012K	14	0000	0	
CHN	7	9	0028	0000	7	59 8 5	31 18.0°N	44 31.0°W	4	113.14	0028	3614.	3642.	3.7K	15	0000	0	
MARS DEN SQUARE # 113																		
AII	85	1	0017	0000	8	74 9 6	36 51.6°N	58 47.8°W	9	114.68	0017	2900.	2200.	0114	12	0000	0	
AII	85	1	0018	0000	8	74 9 7	36 30.0°N	59 24.7°W	9	114.69	0018	3800.	2550.	0100	12	0000	0	
AII	85	1	0019	0000	8	74 9 7	36 27.9°N	59 27.9°W	9	114.69	0019	2800.	2500.	0095	12	0000	0	
AII	85	1	0020	0000	8	74 9 7	36 21.2°N	59 11.5°W	9	114.69	0020	3200.	2300.	0050	12	0000	0	
AII	85	1	0021	0000	8	74 9 8	36 23.6°N	58 15.5°W	9	114.68	0021	3300.	2300.	0011	12	0000	0	
AII	85	1	0022	0000	8	74 9 8	36 16.1°N	58 19.5°W	9	114.68	0022	3500.	2900.	0010	12	0000	0	
AII	85	1	0023	0000	8	74 9 9	35 17.5°N	57 38.5°W	9	114.57	0023	3600.	2450.	0008	12	0000	0	
AII	85	1	0024	0000	8	74 9 10	34 28.1°N	56 47.8°W	9	114.46	0024	3050.	3000.	0020	12	0000	0	
ATL	280	1	0012	0000	7	62 6 19	37 29.0°N	59 47.0°W	5	114.79	0012	1298.	1279.	4.5K	12	0000	0	
ATL	280	1	0013	0000	7	62 6 19	37 33.0°N	59 48.0°W	5	114.79	0013	1295.	1295.	680G	12	0000	0	
KNR	42	5	0161	0000	8	74 8 24	34 48.6°N	57 13.4°W	9	114.47	0033	3310.	3084.	007K	12	0000	0	
KNR	42	5	0162	0000	8	74 8 24	34 53.3°N	57 11.2°W	9	114.47	0034	2706.	2436.	005K	12	0000	0	
KNR	42	5	0166	0000	8	74 8 25	35 36.3°N	58 41.4°W	6	114.58	0036	4227.	3805.	5.2K	12	0000	0	
KNR	42	5	0168	0000	8	74 8 26	36 31.6°N	59 25.7°W	9	114.69	0037	4025.	3796.	1.2K	12	0000	0	
KNR	42	5	0171	0000	8	74 8 27	37 30.6°N	59 52.2°W	6	114.79	0039	1523.	1260.	143K	12	0000	0	

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS CODE
MARS DEN SQUARE # 114																		
KNR	61	1	0016	0000	8	7611 9	37 27.2°N	59 45.2°W	6	114.79	0016	2950.	2350.	0005	12	0000	0	
KNR	61	1	0017	0000	8	7611 9	37 26.0°N	59 45.4°W	6	114.79	0017	3000.	3050.	0080	12	0000	0	
KNR	61	1	0019	0000	8	761110	37 27.2°N	59 47.1°W	9	114.79	0019	2800.	2225.	0031	12	0000	0	
KNR	61	1	0022	0000	8	761111	35 18.5°N	57 30.5°W	6	114.57	0022	3200.	2250.	0050	12	0000	0	
KNR	61	1	0023	0000	8	761111	35 18.4°N	57 31.5°W	6	114.57	0023	2625.	2650.	0017	12	0000	0	
KNR	61	1	0024	0000	8	761112	35 18.2°N	57 32.3°W	9	114.57	0024	2725.	2125.	0100	12	0000	0	
KNR	61	1	0027	0000	8	761113	35 6.2°N	57 25.2°W	6	114.57	0027	3500.	2325.	0030	12	0000	0	
KNR	61	1	0028	0000	8	761113	35 5.7°N	57 25.2°W	9	114.57	0028	3200.	2550.	0018	12	0000	0	
KNR	61	1	0029	0000	8	761113	35 5.2°N	57 24.6°W	6	114.57	0029	3025.	2425.	0025	12	0000	0	
KNR	61	1	0031	0000	8	761114	36 18.8°N	58 18.0°W	9	114.68	0031	3125.	1900.	0110	12	0000	0	
KNR	61	1	0032	0000	8	761114	36 18.7°N	58 18.0°W	6	114.68	0032	3150.	2625.	0008	12	0000	0	
KNR	61	1	0033	0000	8	761114	36 19.6°N	58 18.5°W	6	114.68	0033	2975.	2475.	0045	12	0000	0	
MARS DEN SQUARE # 115																		
ATI	85	1	0001	0000	8	74 828	39 47.3°N	67 28.0°W	9	115.97	0001	3100.	2400.	0095	12	0000	0	
ATI	85	1	0002	0000	8	74 828	39 51.6°N	67 22.4°W	9	115.97	0002	2000.	1700.	0033	12	0000	0	
ATI	85	1	0006	0000	8	74 830	39 36.9°N	66 3.7°W	9	115.96	0006	3750.	2250.	0035	12	0000	0	
ATI	85	1	0007	0000	8	74 830	39 40.0°N	66 3.0°W	9	115.96	0007	2800.	2225.	0200	12	0000	0	
ATI	85	1	0008	0000	8	74 830	39 38.6°N	65 53.1°W	9	115.95	0008	3300.	2600.	0148	12	0000	0	
ATI	85	1	0009	0000	8	74 9 1	38 41.4°N	64 9.2°W	9	115.84	0009	4300.	3300.	0170	12	0000	0	
ATI	85	1	0010	0000	8	74 9 1	38 44.0°N	64 8.1°W	9	115.84	0010	2600.	1850.	0074	12	0000	0	
ATI	85	1	0011	0000	8	74 9 1	38 50.0°N	64 3.8°W	9	115.84	0011	2300.	1800.	0093	12	0000	0	
ATI	85	1	0012	0000	8	74 9 2	38 24.6°N	63 14.7°W	9	115.83	0012	3300.	3100.	0095	12	0000	0	
ATI	85	1	0013	0000	8	74 9 3	38 25.3°N	63 13.9°W	9	115.83	0013	2500.	2200.	0175	12	0000	0	
ATI	85	1	0014	0000	8	74 9 3	38 6.8°N	62 11.6°W	9	115.83	0014	2900.	2100.	0086	12	0000	0	
ATI	85	1	0016	0000	8	74 9 6	36 49.3°N	62 12.5°W	9	115.62	0016	3900.	3300.	0041	12	0000	0	
ATI	85	3	0417	0000	8	75 314	39 30.0°N	70 40.0°W	6	115.90		2460.	2480.	014K	6	0000	0	BEAM TRAWL
ATI	86	3	0424	0000	8	75 316	39 27.0°N	70 28.0°W	6	115.90		2505.	2530.	011K	6	0000	0	41FT. TRA
ATI	86	3	0432	0000	8	75 319	39 31.0°N	70 20.0°W	6	115.90		2350.	2450.	015K	6	0000	0	41FT TRAW
ATL	260	1	0007	0000	7	601018	33 34.0°N	62 26.0°W	5	115.32	0007	1542.	1497.	113G	12	0000	0	
ATL	260	1	0008	0000	7	601018	33 36.0°N	62 25.5°W	5	115.32	0008	1422.	1422.	8.9K	12	0000	0	
ATL	260	1	0009	0000	7	601020	33 36.5°N	62 24.5°W	5	115.32	0009	2553.	2630.	1.5K	12	0000	0	
ATL	280	1	0003	0000	7	62 616	38 54.0°N	61 1.0°W	5	115.81	0003	1298.	1241.	2.3K	12	0000	0	
ATL	280	1	0004	0000	7	62 616	38 57.0°N	60 58.0°W	5	115.80	0004	1150.	1114.	227G	12	0000	0	
ATL	280	1	0005	0000	7	62 616	38 55.0°N	60 58.0°W	5	115.80	0005	1041.	1034.	010K	12	0000	0	
ATL	280	1	0006	0000	7	62 616	38 58.0°N	60 57.0°W	5	115.80	0006	935.	944.	009K	12	0000	0	
ATL	280	1	0009	0000	7	62 617	38 52.0°N	60 27.0°W	5	115.80	0009	1879.	1879.	227G	12	0000	0	
ATL	280	1	0010	0000	7	62 618	38 13.0°N	60 26.0°W	5	115.80	0010	1785.	1785.	012K	12	0000	0	
ATL	280	1	0014	0000	7	62 620	38 3.0°N	62 9.0°W	5	115.82	0014	1954.	1954.	011K	12	0000	0	
ATL	280	1	0015	0000	7	62 620	38 4.0°N	62 8.0°W	5	115.82	0015	1474.	1474.	2.3K	12	0000	0	
ATL	280	1	0016	0000	7	62 621	38 30.0°N	63 13.0°W	5	115.83	0016	1692.	1708.	011K	12	0000	0	
ATL	281	1	0017	0000	8	62 628	39 25.0°N	65 24.0°W	5	115.95	0017	1463.	0.	017K	12	0000	0	
ATL	281	1	0019	0000	8	62 629	39 23.0°N	67 11.0°W	5	115.97	0019	0.	0.	907G	12	0000	0	

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SHIP CRUISE LEG STATION										SAMPLE DE- NUMBER VICE	DATE YR/MO/DA	LATITUDE LONGITUDE		FIX DEN		MARS- CORE OR DREDGE	DEPTH	END DEPTH	LENGTH OR SAMPLE WEIGHT	DREDGE OR GRAPHIC PROV.	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS
SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR/MO/DA	LATITUDE	LONGITUDE	FIX TYPE	DEN SQUARE	MARS- CORE OR DREDGE	DEPTH	END DEPTH	LENGTH OR SAMPLE WEIGHT	DREDGE OR GRAPHIC PROV.	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS					
MARS DEN SQUARE # 115																								
ATL	281	1	0020	0000	8	62 630	39 52.5°N	67 28.0°W	5	115.97	0020	1401.	0.	6.6K	12		0000	0						
ATL	296	C	0001	0000	8	63 8 8	38 16.0°N	63 5.0°W	5	115.83	0001	3691.	3254.	1.5K	12		0000	0						
ATL	296	C	0002	0000	7	63 8 8	38 22.0°N	63 7.0°W	5	115.83	0002	3539.	3444.	0.10G	12		0000	0						
ATL	296	C	0003	0000	8	63 8 9	39 31.0°N	65 21.0°W	5	115.95	0003	3382.	3307.	0.01K	12		0000	0						
ATL	296	C	0004	0000	8	63 8 9	39 31.0°N	65 21.0°W	5	115.35	0004	4143.	3961.	1.6K	12		0000	0						
ATL	296	C	0006	0000	8	63 810	39 37.0°N	65 57.0°W	5	115.95	0006	3004.	1961.	0.07K	12		0000	0						
ATL	296	C	0007	0000	8	63 810	39 37.0°N	65 59.0°W	5	115.95	0007	3476.	2437.	0.11K	12		0000	0						
ATL	296	C	0008	0000	8	63 811	39 29.0°N	65 26.0°W	5	115.95	0008	2617.	2947.	0.08K	12		0000	0						
CHN	9	6	0030	0000	7	591018	31 53.9°N	65 12.3°W	5	115.15	0002	1972.	1372.	0.28G	5		0000	0						
CHN	9	6	0031	0000	7	591018	31 54.7°N	65 12.9°W	5	115.15	0003	1128.	1035.	0.03K	5		0000	0						
CHN	9	7	0032	0000	7	591021	31 54.3°N	65 12.0°W	5	115.15	0005	1207.	1207.	340G	5		0000	0						
CHN	9	7	0033	0000	7	591021	31 54.2°N	65 13.1°W	5	115.15	0006	1636.	1542.	227G	5		0000	0						
CHN	9	7	0034	0000	7	591021	31 54.2°N	65 12.8°W	5	115.15	0007	1542.	1692.	0.02K	5		0000	0						
CHN	9	7	0035	0000	7	591021	31 55.0°N	65 11.8°W	5	115.15	0008	885.	940.	0.02G	5		0000	0						
CHN	9	7	0036	0000	7	591021	31 54.9°N	65 12.7°W	5	115.15	0009	1128.	997.	1.13G	5		0000	0						
CHN	21	1	0002	0000	8	61 818	36 40.0°N	67 56.5°W	5	115.67	0002	3292.	3283.	7.6K	12		0000	0						
CHN	36	1	0018	0000	8	63 7 8	36 42.0°N	67 59.0°W	5	115.67	0006	4327.	4111.	0.51K	12		0000	0						
CHN	58	1	0100	0000	8	66 5 1	33 56.8°N	65 47.0°W	1	115.35	0009	4743.	4892.	0.35K	13		0000	0						
DEVICE: EPIBENTHIC TRAWL																								
**COMMENTS**																								
KNR	42	5	0174	0000	8	74 828	38 11.3°N	60 56.6°W	6	115.80	0040	3777.	3653.	250G	12		0000	0						
KNR	42	5	0177	0000	8	74 830	39 29.6°N	65 24.1°W	6	115.95	0041	2798.	1887.	100G	12		0000	0						
KNR	42	5	0178	0000	8	74 830	39 27.0°N	65 27.3°W	6	115.95	0042	2240.	2531.	0.12K	12		0000	0						
KNR	42	5	0180	0000	8	74 831	39 50.2°N	66 12.6°W	6	115.96	0043	2354.	1885.	0.21K	12		0000	0						
KNR	42	5	0181	0000	8	74 831	39 51.0°N	66 52.8°W	6	115.96	0044	2825.	1885.	0.02K	12		0000	0						
KNR	42	5	0182	0000	8	74 9 1	39 23.6°N	67 14.0°W	6	115.97	0045	3040.	3095.	100G	12		0000	0						
KNR	61	1	0005	0000	8	7611 5	39 46.1°N	66 17.4°W	9	115.96	0005	2900.	3900.	0.071	12		0000	0						
KNR	61	1	0008	0000	8	7611 5	39 48.0°N	66 18.8°W	6	115.96	0008	2800.	2700.	0.2.6	12		0000	0						
KNR	61	1	0009	0000	8	7611 7	38 28.3°N	63 10.5°W	9	115.83	0009	2000.	1850.	0.059	12		0000	0						
KNR	61	1	0010	0000	8	7611 7	38 26.7°N	63 9.7°W	6	115.83	0010	2150.	2025.	0.0.5	12		0000	0						
KNR	61	1	0013	0000	8	7611 8	38 26.8°N	63 9.6°W	6	115.83	0013	2375.	2350.	0.005	12		0000	0						
KNR	61	1	0014	0000	8	7611 8	38 26.0°N	62 51.0°W	6	115.82	0014	3125.	2550.	0.072	12		0000	0						
KNR	61	1	0015	0000	8	7611 8	38 26.3°N	62 50.5°W	9	115.82	0015	3300.	2400.	0.036	12		0000	0						
KNR	61	1	0034	0000	8	761116	39 2.7°N	60 55.6°W	9	115.90	0034	2650.	2475.	0.002	12		0000	0						
KNR	61	1	0037	0000	8	761116	38 53.8°N	60 57.8°W	6	115.80	0037	2100.	1850.	0.034	12		0000	0						
KNR	61	1	0038	0000	8	761117	38 54.6°N	60 59.2°W	9	115.80	0038	1575.	1100.	0.040	12		0000	0						
KNR	61	1	0039	0000	8	761117	38 55.3°N	60 58.6°W	6	115.80	0039	1450.	1125.	0.025	12		0000	0						
KNR	61	1	0042	0000	8	761118	38 34.6°N	60 8.0°W	6	115.80	0042	3075.	2800.	0.020	12		0000	0						
KNR	61	1	0043	0000	8	761118	38 34.2°N	60 10.8°W	6	115.80	0043	2700.	2275.	0.3.4	12		0000	0						
KNR	61	1	0044	0000	8	761118	38 18.4°N	62 56.0°W	9	115.82	0044	3925.	3150.	0.050	12		0000	0						
KNR	61	1	0045	0000	8	761119	38 18.0°N	62 56.4°W	6	115.82	0045	3700.	2575.	0.055	12		0000	0						
KNR	61	1	0046	0000	8	761120	39 46.2°N	66 16.5°W	6	115.96	0046	3275.	2750.	0.7.4	12		0000	0						
KNR	61	1	0047	0000	8	761122	39 47.2°N	66 16.8°W	9	115.96	0047	2725.	3000.	0.070	12		0000	0						

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SHIP	CRUISE	LEG	STATION	NUMBER	VICE	YR/MO/DY	LATITUDE	LONGITUDE	TYPE	SQUARE	NUMBER	DEPTH	WEIGHT	PROV.	TYPE	CODE	REMARKS
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## MARS DEN SQUARE # 116

ATI	1	1	0002	0000	7	63	3	4	39	43.0°N	70	42.6°W	5	116.90	0002	2027.	2027.	2027.	7.4K	4
ATL	266	1	0002	0000	8	61	625	31	58.0°N	77 18.5°W	5	116.17	0002	843.	843.	843.	843.	843.	020K	7
ATL	266	1	0003	0000	7	61	626	31	56.5°N	77 26.0°W	5	116.17	0003	739.	739.	739.	739.	739.	012K	7
ATL	266	1	0004	0000	7	61	626	31	56.0°N	77 26.0°W	5	116.17	0004	815.	815.	815.	815.	815.	012K	7
ATL	266	1	0005	0000	7	61	627	31	53.0°N	77 27.2°W	5	116.17	0005	815.	815.	815.	815.	815.	020K	7
ATL	266	1	0006	0000	7	61	627	31	54.8°N	77 25.0°W	5	116.17	0006	739.	739.	739.	739.	739.	014K	7
ATL	266	1	0007	0000	7	61	628	31	53.0°N	77 22.5°W	5	116.17	0007	739.	739.	739.	739.	739.	010K	7
ATL	266	1	0008	0000	7	61	628	31	53.0°N	77 21.0°W	5	116.17	0008	834.	834.	834.	834.	834.	7.9K	7
ATL	266	1	0012	0000	7	61	630	31	49.0°N	76 49.0°W	5	116.16	0012	1320.	1320.	1320.	1320.	1.2K	7	
ATL	266	1	0016	0000	7	61	7	1	31	51.0°N	77 28.0°W	5	116.17	0016	689.	689.	689.	689.	015K	7
ATL	266	1	0017	0000	7	61	7	1	31	52.0°N	77 28.0°W	5	116.17	0017	676.	676.	676.	676.	017K	7
ATL	266	1	0018	0000	7	61	7	2	32	.5°N	77 35.0°W	5	116.27	0018	677.	677.	677.	677.	454G	7
ATL	266	1	0019	0000	7	61	7	2	32	1.0°N	77 34.0°W	5	116.27	0019	684.	684.	684.	684.	567G	7
ATL	266	1	0020	0000	8	61	7	3	31	49.0°N	77 38.0°W	5	116.17	0020	692.	692.	692.	692.	567G	7
ATL	266	1	0021	0000	8	61	7	3	31	50.5°N	77 37.0°W	5	116.17	0021	696.	696.	696.	696.	016K	7
ATL	266	1	0022	0000	8	61	7	3	31	49.5°N	77 37.0°W	5	116.17	0022	705.	705.	705.	705.	018K	7
ATL	266	1	0025	0000	7	61	7	6	31	48.0°N	77 34.0°W	5	116.17	0025	668.	668.	668.	668.	1.4K	7
ATL	266	1	0026	0000	7	61	7	6	31	49.5°N	77 34.5°W	5	116.17	0026	865.	865.	865.	865.	010K	7
ATL	266	1	0040	0000	8	61	713	30	53.0°N	78 47.0°W	5	116.08	0040	836.	836.	836.	836.	026K	7	
ATL	266	1	0041	0000	8	61	715	30	59.0°N	78 14.0°W	5	116.08	0041	903.	903.	903.	903.	9.1K	7	
ATL	266	1	0042	0000	7	61	715	30	59.0°N	78 13.0°W	5	116.08	0042	834.	834.	834.	834.	013K	7	
ATL	266	1	0043	0000	7	61	717	30	57.0°N	78 21.0°W	5	116.08	0043	954.	954.	954.	954.	9.1K	7	
ATL	266	1	0045	0000	8	61	718	30	58.0°N	78 30.0°W	5	116.08	0045	833.	833.	833.	833.	044K	7	
ATL	266	1	0046	0000	8	61	718	30	58.5°N											



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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN SQUARE	CORE OR DREDGE NUMBER	DEPTH	END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSION- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS	
MARS DEN SQUARE # 116																				
GOS	73	1	0007	0000	7	65	719	30	41.5°N	78	52.6°W	5	116.08	0007	0.	0.	2.7K	7	0000 0	
GOS	73	1	0008	0000	7	65	719	30	38.7°N	78	51.5°W	5	116.08	0008	847.	0.	002K	7	0000 0	
MARS DEN SQUARE # 141																				
AII	15	3	0008	0000	8	65	213	30	21.5°N	32	19.0°E	1	141.02	0001	7.	0.	227G	99	0000 0 BITTER LAK	
AII	15	3	0009	0000	8	65	213	30	19.5°N	32	19.7°E	1	141.02	0002	9.	0.	227G	99	0000 0 BITTER LAK	
AII	15	3	0015	0000	8	65	214	30	20.9°N	32	25.7°E	1	141.02	0003	9.	0.	227G	99	0000 0 BITTER LAK	
AII	15	3	0016	0000	8	65	214	30	23.0°N	32	24.0°E	1	141.02	0004	4.	0.	227G	99	0000 0 BITTER LAK	
AII	15	3	0017	0000	8	65	214	30	23.8°N	32	21.5°E	1	141.02	0005	5.	0.	227G	99	0000 0 BITTER LAK	
AII	15	3	0018	0000	8	65	214	30	23.4°N	32	18.8°E	1	141.02	0006	4.	0.	113G	99	0000 0 BITTER LAK	
AII	15	3	0019	0000	8	65	214	30	21.5°N	32	19.0°E	1	141.02	0007	7.	0.	113G	99	0000 0 BITTER LAK	
CHN	43	1	0078	0000	8	64	617	33	24.5°N	35	12.0°E	5	141.35	0030	49.	149.	005K	2	0000 0	
CHN	43	1	0079	0000	8	64	617	33	23.0°N	35	7.0°E	5	141.35	0031	577.	577.	113G	4	0000 0	
CHN	119	2	0044	0000	8	75	328	31	41.2°N	30	30.3°E	1	141.10	0001	29.	33.	570G	24	0000 0	
CHN	119	2	0060	0000	8	75	329	31	36.9°N	30	7.0°E	3	141.10	0002	219.	63.	254G	25	0000 0	
CHN	119	2	0092	0000	8	75	4	2	31	40.7°N	30	41.3°E	3	141.10	0003	17.	17.	425G	24	0000 0
CHN	119	2	0105	0000	8	75	4	3	31	38.2°N	30	57.9°E	3	141.10	0004	6.	9.	176G	24	0000 0
CHN	119	2	0124	0000	8	75	4	5	33	46.1°N	32	42.1°E	9	141.32	0005	917.	917.	1.5K	12	0000 0
CHN	119	2	0181	0000	8	75	410	32	1.8°N	31	24.0°E	9	141.21	0008	97.	105.	025K	24	0000 0	
MARS DEN SQUARE # 143																				
CHN	7	3	0005	0000	7	59	524	37	32.0°N	11	10.0°E	4	143.71	0005	358.	358.	004K	21	0000 0	
CHN	7	3	0006	0000	7	59	524	37	32.0°N	11	10.0°E	4	143.71	0006	453.	453.	005K	21	0000 0	
CHN	7	3	0007	0000	7	59	525	37	32.0°N	11	10.0°E	4	143.71	0007	453.	453.	9.3K	21	0000 0	
CHN	7	3	0009	0000	7	59	526	36	11.0°N	15	29.5°E	4	143.65	0009	1136.	1136.	454G	21	0000 0	
CHN	7	3	0011	0000	7	59	526	36	10.9°N	15	32.0°E	4	143.65	0011	2104.	2104.	454G	21	0000 0	
CHN	7	4	0013	0000	7	59	6	8	37	39.0°N	16	37.5°E	4	143.76	0013	2296.	680G	21	0000 0	
CHN	61	2	0021	0000	8	66	8	9	36	13.5°N	13	24.6°E	6	143.63	0001	1268.	113G	21	0000 0	
MARS DEN SQUARE # 146																				
CHN	13	7	0008	0000	8	60	925	48	46.0°N	10	2.0°W	5	146.80	0008	334.	334.	113G	4	0000 0	
CHN	13	7	0009	0000	8	60	925	48	47.0°N	10	1.5°W	5	146.80	0009	814.	841.	029K	4	0000 0	

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	COPE OR DREDGE	DEPTH	COPE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK CR	VITA TYPE	REMARKS
MARSDEN SQUARE # 147																		
AIH	13	1	0075	0000	8	64 919	42 29.0°N	28 56.0°W	1	147.28	0001	1159.	1159.	031K	15	0000	0	
AIH	32	3	0001	0000	8	67 7 8	42 59.5°N	27 42.2°W	9	147.27	0001	3041.	2778.	0000	15	0000	0	
AIH	32	3	0002	0000	8	67 7 8	42 57.5°N	27 40.7°W	9	147.27	0002	2853.	2532.	0000	15	0000	0	
AIH	32	3	0003	0000	8	67 7 9	43 1.8°N	28 13.5°W	9	147.38	0003	1465.	1315.	0000	15	0000	0	
AIH	32	3	0004	0000	8	67 7 9	43 3.2°N	28 15.2°W	9	147.38	0004	1353.	1129.	0000	15	0000	0	
AIH	32	3	0005	0000	8	67 710	43 6.4°N	28 31.0°W	9	147.38	0005	1483.	1371.	0000	15	0000	0	
AIH	32	3	0006	0000	8	67 710	43 7.4°N	28 25.6°W	9	147.38	0006	2344.	1689.	0000	15	0000	0	
AIH	32	3	0007	0000	8	67 711	43 11.4°N	28 58.7°W	9	147.38	0007	3193.	2532.	0000	15	0000	0	
AIH	32	3	0008	0000	8	67 711	43 12.6°N	28 56.0°W	9	147.38	0008	2532.	2250.	0000	16	0000	0	
AIH	32	3	0009	0000	8	67 711	43 12.4°N	28 54.7°W	9	147.38	0009	1847.	1557.	0000	16	0000	0	
AIH	32	3	0010	0000	8	67 711	43 13.5°N	29 9.6°W	9	147.39	0010	2268.	1913.	0000	16	0000	0	
AIH	32	3	0011	0000	8	67 712	42 57.3°N	29 15.5°W	9	147.29	0011	2174.	1988.	0000	16	0000	0	
AIH	32	3	0012	0000	8	67 712	42 57.6°N	29 12.1°W	9	147.29	0012	1820.	1440.	0000	16	0000	0	
AIH	32	3	0013	0000	8	67 712	42 55.5°N	29 7.8°W	9	147.29	0013	1279.	1054.	0000	16	0000	0	
AIH	32	3	0014	0000	8	67 713	42 59.5°N	29 16.6°W	9	147.29	0014	2910.	2703.	0000	16	0000	0	
AIH	32	3	0015	0000	8	67 713	43 1.0°N	29 18.2°W	9	147.39	0015	2344.	2118.	0000	16	0000	0	
AIH	32	3	0016	0000	8	67 714	43 14.8°N	29 21.3°W	9	147.39	0016	2778.	2325.	0000	15	0000	0	
AIH	32	3	0017	0000	8	67 714	43 19.8°N	29 14.2°W	9	147.39	0017	1913.	1596.	0000	15	0000	0	
AIH	59	8	0003	0000	8	7012 4	26 59.0°N	42 40.0°W	1	147.62	0003	3500.	3390.	0018	16	0000	0	
AIH	59	8	0004	0000	8	7012 4	27 10.0°N	43 28.0°W	1	147.73	0004	3235.	2910.	0002	16	0000	0	
AIH	59	8	0005	0000	8	7012 4	27 12.0°N	43 36.0°W	1	147.73	0005	3670.	2885.	0150	16	0000	0	
AIH	59	8	0006	0000	8	7012 5	27 15.0°N	43 49.0°W	1	147.73	0006	2980.	2630.	0304	16	0000	0	
AIH	59	8	0007	0000	8	7012 5	27 14.0°N	43 58.0°W	1	147.73	0007	2785.	2140.	0012	16	0000	0	
AIH	59	8	0010	0000	8	7012 7	27 18.0°N	44 33.0°W	1	147.74	0010	2860.	2255.	0001	16	0000	0	
AIH	59	8	0011	0000	8	7012 7	27 29.0°N	44 44.0°W	1	147.74	0011	2745.	2535.	500G	16	0000	0	
CHN	43	1	0104	0000	8	64 8 8	45 11.0°N	27 56.0°W	4	147.57	0037	2697.	2527.	048K	16	0000	0	
CHN	43	1	0107	0000	8	64 8 9	44 34.0°N	28 9.2°W	4	147.48	0038	3264.	3264.	3.3K	16	0000	0	
CHN	43	1	0112	0000	8	64 812	42 39.3°N	28 59.1°W	10	147.28	0040	1628.	1628.	095G	16	0000	0	
CHN	43	1	0113	0000	8	64 812	42 42.4°N	29 1.5°W	10	147.29	0041	1829.	1684.	024K	16	0000	0	
CHN	82	6	0029	0000	8	68 811	41 55.0°N	29 13.0°W	8	147.19	0001	3112.	3065.	227G	16	0000	0	
CHN	82	7	0034	0000	8	68 823	42 28.5°N	28 41.1°W	8	147.28	0002	1642.	1282.	011K	14	0000	0	
CHN	82	7	0035	0000	8	68 823	42 31.0°N	29 15.0°W	8	147.29	0003	2489.	2471.	5.9K	16	0000	0	
CHN	105	8	0048	0000	8	72 726	43 52.0°N	22 13.6°W	9	147.32	0001	4528.	4106.	0010	17	0000	0	
CHN	105	2	0001	0000	8	72 726	43 58.2°N	22 11.7°W	9	147.32	0003	3118.	2625.	0021	17	0000	0	
CHN	105	2	0003	0000	8	72 727	43 38.8°N	22 6.0°W	9	147.32	0005	4528.	3764.	0013	17	0000	0	
CHN	105	2	0006	0000	8	72 727	43 39.0°N	22 13.0°W	9	147.32	0006	3080.	2630.	0044	17	0000	0	
CHN	105	2	0007	0000	8	72 727	43 35.7°N	22 27.2°W	9	147.32	0007	1727.	1316.	0005	17	0000	0	
CHN	105	2	0008	0000	8	72 727	43 21.0°N	21 19.1°W	9	147.31	0008	4299.	3953.	0012	17	0000	0	
CHN	105	2	0009	0000	8	72 728	43 18.1°N	21 13.8°W	9	147.31	0009	4278.	3457.	0002	17	0000	0	
CHN	105	2	0010	0000	8	72 728	43 17.2°N	21 46.9°W	9	147.31	0010	2967.	2626.	0004	17	0000	0	
CHN	105	2	0011	0000	8	72 729	43 36.7°N	22 28.2°W	9	147.32	0011	1614.	1129.	0008	17	0000	0	

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SHIP	CRUISE	LEG	STATION	SAMPLE DE- NUMBER VICE	DATE YR MODA	LATITUDE	LONGITUDE	TYPE	SQUARE	MARS- DEN	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS CODE	
MARS DEN SQUARE # 151																			
ATL	260	1	0003	0000	7	601012	40	4.0°N	69	1.5°W	5	151.09	0003	760.	722.	3.8K	25	0000	0
ATL	260	1	0004	0000	7	601012	40	3.6°N	69	2.0°W	5	151.09	0004	555.	333.	010K	25	0000	0
MARS DEN SQUARE # 180																			
CHN	43	1	0086	0000	8	64 7 8	43	36.0°N	9	24.0°E	5	180.39	0032	946.	946.	012K	4	0000	0
CHN	43	1	0088	0000	8	64 711	43	22.0°N	8	37.2°E	5	180.38	0033	2478.	2478.	3.1K	4	0000	0
CHN	43	1	0093	0000	8	64 718	42	46.6°N	7	37.5°E	5	180.27	0035	2674.	2674.	794G	6	0000	0
CHN	43	1	0094	0000	8	64 718	42	46.5°N	7	37.5°E	5	180.27	0036	2674.	2674.	075G	6	0000	0
MARS DEN SQUARE # 182																			
CHN	13	2	0041	0000	7	60 725	57	35.2°N	13	32.0°W	5	182.73	0041	147.	147.	012K	13	0000	0
CHN	13	2	0042	0000	7	60 725	57	35.2°N	13	32.0°W	1	182.73	0042	162.	162.	011K	13	0000	0
MARS DEN SQUARE # 183																			
CHN	13	2	0007	0000	8	60 723	51	28.0°N	29	45.0°W	1	183.19	0007	1301.	1301.	040K	14	0000	0
CHN	13	2	0040	0000	7	60 721	50	44.0°N	29	52.0°W	5	183.09	0040	3897.	3556.	5.7K	16	0000	0
MARS DEN SQUARE # 301																			
ATI	20	2	0011	0000	8	66 3 8	0	12.0°S	18	27.0°W	1	301.08	0011	7100.	5840.	0000	19	0000	0
ATI	20	2	0012	0000	8	66 3 9	0	11.0°S	18	26.0°W	1	301.08	0012	5400.	4235.	650G	19	0000	0
ATI	20	2	0017	0000	8	66 311	0	3.0°S	17	35.0°W	1	301.07	0017	5145.	4490.	0000	19	0000	0
ATI	20	2	0018	0000	8	66 311	0	5.5°S	17	36.0°W	1	301.07	0018	3870.	3650.	0000	19	0000	0
ATI	20	2	0020	0000	8	66 313	0	15.0°S	18	33.0°W	1	301.08	0020	7620.	5300.	0000	19	0000	0
ATI	42	5	0001	0000	8	68 610	4	8.0°S	12	7.0°W	1	301.42	0001	3061.	2871.	0134	19	0000	0
ATI	42	5	0002	0000	8	68 611	3	49.0°S	11	3.0°W	1	301.31	0002	3468.	3231.	0059	19	0000	0
ATI	60	6	0015	0000	8	71 624	0	40.0°S	18	18.0°W	9	301.08	0015	4512.	3500.	0128	19	0000	0
ATI	60	6	0017	0000	8	71 624	0	90.0°S	18	22.0°W	9	301.08	0017	6387.	5675.	0180	19	0000	0
MARS DEN SQUARE # 302																			
ATI	20	2	0021	0000	8	66 314	0	28.5°S	20	31.0°W	1	302.00	0021	5760.	5390.	0000	19	0000	0
ATI	20	2	0022	0000	8	66 314	0	40.0°S	20	28.5°W	1	302.00	0022	6600.	6600.	0000	19	0000	0

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SHIP	CRUISE	LEG	STATION	DE- NUMBER	DATE	LATITUDE	LONGITUDE	TYPE	SQUARE	MARS- DEN	CORE OR DREDGE	CORE LENGTH	DREDGE OR	PHYSIO- GRAPHIC	SED.	VITA	TYPE	CODE	REMARKS	
																				FIX
MARS DEN SQUARE # 302																				
ATI	20	2	0023	0000	8	66 315	0 43.6'S	20 25.0'W	1	302.00	0023	3843.	2815.	0000	19	0000	0			
CHN	35	2	0011	0000	8	63 3 9	1 27.0'S	29 14.0'W	1	302.19	0011	4353.	4353.	0000	15	0000	0			
MARS DEN SQUARE # 303																				
CHN	35	2	0003	0000	8	63 3 6	0 50.5'S	30 6.5'W	1	303.00	0003	4408.	4408.	0000	15	0000	0			
CHN	35	2	0004	0000	8	63 3 7	0 57.0'S	30 8.0'W	1	303.00	0004	4320.	4320.	0000	15	0000	0			
CHN	35	2	0012	0000	11	63 313	7 38.5'S	34 37.0'W	1	303.74	0012	28.	28.	0000	14	0000	0			
CHN	115	7	0151	0000	8	74 524	8 5.8'S	33 54.5'W	1	303.83	0011	2052.	1774.	103K	4	0000	0			
CHN	115	7	0154	0000	8	74 528	4 43.5'S	35 2.0'W	1	303.45	0014	1085.	905.	5.9K	4	0000	0			
CHN	115	8	0155	0000	7	74 6 3	3 19.0'S	37 34.0'W	1	303.37	0015	285.	344.	030G	4	0000	0			
CHN	115	8	0156	0000	8	74 6 3	3 20.3'S	37 22.8'W	1	303.37	0016	806.	284.	6.6K	4	0000	0			
CHN	115	8	0157	0000	8	74 6 3	3 20.4'S	37 27.7'W	1	303.37	0017	266.	272.	043K	4	0000	C			
MARS DEN SQUARE # 322																				
ATI	93	12	0044	0000	8	76 919	5 20.6'S	131 54.4'E	2	322.51	0018	1551.	695.	500G	3	0000	0			
MARS DEN SQUARE # 326																				
CHN	100	6	0060	0000	8	71 531	4 2.2'S	90 46.9'E	9	326.40	0005	4881.	3960.	011K	15	0000	0			
MARS DEN SQUARE # 329																				
CHN	43	1	0052	0000	8	64 517	7 36.3'S	60 12.3'E	1	329.70	0021	3286.	3286.	010G	13	0000	0			
MARS DEN SQUARE # 330																				
CHN	43	1	0011	0000	8	64 4 9	1 37.0'S	53 21.0'E	1	330.13	0005	4784.	4088.	006K	10	0000	C			
CHN	43	1	0017	0000	7	64 412	3 37.0'S	55 42.0'E	1	330.35	0001	2618.	2618.	3.8K	3	0000	C			
CHN	43	1	0018	0000	8	64 416	6 49.0'S	57 22.0'E	1	330.67	0007	2776.	2826.	025G	13	0000	0			
CHN	43	1	0020	0000	8	64 417	7 2.0'S	59 22.0'E	1	330.79	0008	3127.	2984.	004G	13	0000	0			
CHN	43	1	0060	0000	7	64 520	6 4.0'S	57 7.0'E	1	330.67	0004	1913.	1913.	007G	13	0000	0			
CHN	43	1	0061	0000	8	64 520	6 4.0'S	57 5.0'E	1	330.67	0022	1763.	1763.	075G	13	0000	0			
CHN	43	1	0063	0000	8	64 521	5 14.0'S	55 19.5'E	1	330.55	0023	1497.	1497.	3.9K	13	0000	0			

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR/MO/DA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN SQUARE	CORE DP DREDFGT	DEPTH	CORE LENGTH OR FNG	DRIFGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS	
																			DEPTH
MARS DEN SQUARE # 355																			
CHN	100			9	0081	0000	8	71 8 9	17 52.4'S	167 20.6'E	9	355.77	0014	4815.	4746.	044K	17	0000	C
CHN	100			9	0086	0000	8	71 813	14 47.1'S	168 9.2'E	9	355.48	0015	2671.	2291.	045K	21	0000	0
CHN	100			9	0090	0000	8	71 816	13 17.5'S	166 6.8'E	9	355.36	0016	7094.	6485.	5.9K	21	0000	0
MARS DEN SQUARE # 356																			
CHN	100			8	0066	0000	8	71 723	10 43.8'S	152 8.4'E	9	356.02	0010	3271.	3215.	1.8K	21	0000	0
MARS DEN SQUARE # 359																			
CHN	100			7	0061	0000	8	71 711	12 40.2'S	123 33.4'E	9	359.23	0006	127.	238.	3.9K	2	0000	0
CHN	100			7	0064	0000	8	71 712	12 39.6'S	123 33.0'E	9	359.23	0009	239.	242.	012K	2	0000	0
MARS DEN SQUARE # 365																			
CHN	43			1	0035	0000	8	64 510	14 34.0'S	60 21.0'E	1	365.40	0012	55.	55.	4.5K	13	0000	0
CHN	43			1	0037	0000	8	64 511	13 35.0'S	61 12.0'E	1	365.31	0013	2131.	2131.	1.6K	13	0000	C
CHN	43			1	0039	0000	8	64 512	13 22.5'S	60 57.0'E	1	365.30	0014	1455.	1455.	340G	13	0000	0
CHN	43			1	0044	0000	8	64 514	10 50.5'S	60 8.8'E	1	365.00	0016	1320.	1320.	680G	13	0000	0
MARS DEN SQUARE # 366																			
CHN	43			1	0026	0000	8	64 424	17 22.5'S	59 10.0'E	1	366.79	0011	830.	792.	454G	13	0000	0
MARS DEN SQUARE # 400																			
AI1	93			6	0011	0000	8	76 317	24 58.8'S	70 7.7'E	9	400.40	0010	3512.	3522.	104K	16	0000	0
AI1	93			6	0012	0000	8	76 317	24 40.5'S	70 2.7'E	9	400.50	0011	3445.	3323.	043K	14	0000	0
AI1	93			6	0015	0000	8	76 328	25 46.8'S	70 11.0'E	9	400.50	0014	3521.	3097.	024K	16	0000	0
MARS DEN SQUARE # 401																			
AI1	93			6	0014	0000	8	76 328	25 42.6'S	69 33.5'E	9	401.59	0013	3609.	3256.	086K	14	0000	0
AI1	93			6	0018	0000	8	76 330	25 35.5'S	69 55.8'E	9	401.59	0016	3865.	3079.	040K	16	0000	0

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	YR	MODA	LATITUDE	LONGITUDE	TYPE	SQUARE	NUMBER	DEPTH	OR END	DREDGE WEIGHT	OR SAMPLE	PHYSIC- GRAPHIC	ROCK OR SED.	REMARKS
MARS DEN SQUARE # 407																				
AI1	93	2	0017	0000	8	751210	29	32.8'S	3	5.7'E	9	407.93	0017	2787.	1650.	0072	15	0000	C	
AI1	93	2	0019	0000	8	751212	26	28.7'S	6	15.3'E	9	407.66	0019	2450.	2400.	0033	15	0000	C	
AI1	93	2	0020	0000	8	751213	24	43.2'S	6	34.2'E	9	407.46	0020	1800.	1190.	0035	15	0000	C	
AI1	93	2	0021	0000	8	751214	25	26.0'S	6	42.2'E	9	407.56	0021	3160.	2625.	0004	15	0000	C	
MARS DEN SQUARE # 408																				
AI1	93	2	0003	0000	8	7512 1	37	8.3'S	7	49.5'W	9	408.77	0003	2650.	1940.	0034	15	0000	C	
AI1	93	2	0004	0000	8	7512 1	36	22.7'S	7	30.7'W	9	408.67	0004	2184.	1925.	0013	15	0000	C	
AI1	93	2	0005	0000	8	7512 3	34	17.3'S	5	2.1'W	9	408.45	0005	3101.	3012.	0051	15	0000	C	
AI1	93	2	0006	0000	8	7512 3	34	21.0'S	4	59.0'W	9	408.44	0006	2460.	2360.	0037	15	0000	C	
AI1	93	2	0007	0000	8	7512 4	34	30.0'S	3	27.9'W	9	408.43	0007	2220.	2130.	0001	15	0000	C	
AI1	93	2	0008	0000	8	7512 4	34	30.0'S	3	28.4'W	9	408.43	0008	1984.	1488.	0058	15	0000	C	
AI1	93	2	0009	0000	8	7512 5	34	10.6'S	1	29.7'W	9	408.41	0009	1425.	1765.	0022	15	0000	C	
AI1	93	2	0010	0000	8	7512 5	34	20.5'S	1	34.6'W	9	408.41	0010	2284.	1935.	0056	15	0000	C	
AI1	93	2	0011	0000	8	7512 6	32	58.2'S	0	1.1'W	9	408.41	0011	3109.	2367.	0088	15	0000	C	
AI1	93	2	0012	0000	8	7512 7	32	39.9'S	1	35.3'E	9	408.20	0012	3090.	2827.	0001	15	0000	C	
MARS DEN SQUARE # 409																				
AI1	93	2	0001	0000	8	751128	34	59.0'S	16	8.0'W	9	409.46	0001	3576.	2283.	0015	15	0000	C	
AI1	107	7	0009	0000	8	80 429	39	41.8'S	16	3.2'W	9	409.96	0009	2314.	2633.	0101	16	0000	C	
AI1	107	7	0010	0000	8	80 430	38	52.9'S	16	14.4'W	9	409.86	0010	2384.	1954.	0020	16	0000	C	
AI1	107	7	0011	0000	8	80 430	38	10.9'S	16	33.7'W	9	409.86	0011	2490.	2209.	01.6	16	0000	C	
AI1	107	7	0013	0000	8	80 5 2	37	50.0'S	17	8.5'W	9	409.77	0013	2723.	1885.	0013	16	0000	C	
AI1	107	7	0014	0000	8	80 5 2	37	11.2'S	17	30.9'W	9	409.77	0014	2454.	2224.	0350	16	0000	C	
AI1	107	7	0015	0000	8	80 5 3	36	33.5'S	17	35.2'W	9	409.67	0015	2683.	2434.	0237	16	0000	C	
AI1	107	7	0016	0000	8	80 5 4	36	4.4'S	18	5.0'W	9	409.68	0016	2623.	2284.	0025	16	0000	C	
AI1	107	7	0017	0000	8	80 5 5	35	16.7'S	15	44.1'W	9	409.55	0017	3638.	3135.	0300	16	0000	C	
AI1	107	7	0018	0000	8	80 5 5	34	33.2'S	15	8.8'W	9	409.45	0018	2824.	2464.	0400	16	0000	C	
AI1	107	7	0020	0000	8	80 5 6	33	42.8'S	14	15.0'W	9	409.34	0020	2283.	1489.	0031	16	0000	C	
AI1	107	7	0023	0000	8	80 5 8	32	40.6'S	14	1.1'W	9	409.24	0023	2634.	2087.	0007	16	0000	C	
AI1	107	7	0025	0000	8	80 5 9	31	50.0'S	13	34.7'W	9	409.13	0025	2984.	2364.	0044	16	0000	C	
MARS DEN SQUARE # 411																				
CHN	115	6	0146	0000	8	74 511	30	12.8'S	39	21.5'W	1	411.09	0009	4780.	4139.	133K	13	0000	0	

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	COPE NUMBER	DEPTH	END DEPTH	OR SAMPLE	OR WEIGHT	PHYSION- GRAPHIC	OR SED.	VITA	TYPE	CODE	REMARKS
MARS DEN SQUARE # 443																					
ALL	93	2	0013	0000	8	7512 7	32 39.1'S	1 36.0'W	9	443.21	0013	2307.	2215.	0014	15	0000	0				
ALL	93	2	0014	0000	8	7512 8	31 59.5'S	2 24.2'W	9	443.12	0014	2304.	1587.	0175	15	0000	0				
MARS DEN SQUARE # 445																					
ALL	107	7	0002	0000	8	80 422	46 12.7'S	14 4.4'W	9	445.64	0002	2485.	2913.	0170	16	0000	0				
ALL	107	7	0004	0000	8	80 426	42 54.9'S	16 22.2'W	9	445.26	0004	3085.	2519.	0183	16	0000	0				
ALL	107	7	0006	0000	8	80 427	41 14.9'S	16 36.2'W	9	445.16	0006	2614.	2175.	0114	16	0000	0				
ALL	107	7	0007	0000	8	80 428	40 26.3'S	16 45.0'W	9	445.06	0007	2627.	2597.	0390	16	0000	0				
MARS DEN SQUARE # 480																					
ALL	107	6	0031	0000	8	80 320	54 41.4'S	0 2.3'W	12	480.40	0031	829.	884.	0046	14	0000	0				
ALL	107	6	0032	0000	8	80 320	54 39.7'S	0 8'W	12	480.40	0032	891.	900.	0010	14	0000	0				
ALL	107	6	0033	0000	8	80 321	54 39.0'S	0 4.1'W	12	480.40	0033	937.	987.	0050	14	0000	0				
ALL	107	6	0034	0000	8	80 321	54 38.1'S	0 7.6'W	12	480.40	0034	1060.	1082.	0017	14	0000	0				
CHN	115	4	0037	0000	8	74 225	54 35.9'S	0 58.1'W	9	480.40	0001	2522.	2328.	093K	14	0000	0				
CHN	115	4	0038	0000	8	74 227	55 20.2'S	1 42.6'W	9	480.51	0003	3509.	3419.	9.5K	14	0000	0				
CHN	115	4	0042	0000	8	74 3 4	55 22.5'S	2 1.9'W	9	480.52	0004	2540.	2461.	1.8K	15	0000	0				
CHN	115	4	0044	0000	8	74 3 6	54 40.2'S	0 1.2'W	9	480.40	0005	861.	818.	091K	16	0000	0				
ISD	1	1	0045	0000	8	761120	55 37.5'S	3 48.9'W	9	480.53	0045	3600.	3050.	0100	19	0000	0				
ISD	1	1	0047	0000	8	761121	55 36.2'S	3 43.7'W	9	480.53	0047	2150.	1450.	0035	19	0000	0				
ISD	1	1	0048	0000	8	761121	55 41.2'S	3 49.1'W	9	480.53	0048	4390.	3700.	00.1	19	0000	0				
MARS DEN SQUARE # 484																					
ALL	107	6	0001	0000	8	80 3 9	56 10.2'S	41 48.0'W	12	484.61	0001	3809.	3402.	0068	12	0000	0				
ALL	107	6	0002	0000	8	80 3 9	56 7.3'S	41 41.1'W	12	484.61	0002	2438.	2959.	01.4	12	0000	0				
MARS DEN SQUARE # 514																					
ISD	1	1	0075	0000	8	7612 9	52 54.0'S	11 23.3'W	9	514.21	0075	1940.	1760.	0010	19	0000	0				
MARS DEN SQUARE # 515																					
ALL	107	6	0035	0000	8	80 321	54 43.4'S	0 48.2'W	12	515.40	0035	584.	651.	0048	14	0000	0				

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX	DEN	MARS- SQUARE	CORE OR DREDGE	DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	SED. TYPE	VITA CODE	REMARKS
MARSDEN SQUARE # 515																		
ATI	107	6	0036	0000	8	80 321	54 42.9'S	0 49.4'E	12	515.40	0036	745.	941.	0028	14	0000	0	
ATI	107	6	0037	0000	8	80 322	54 44.2'S	0 50.3'E	12	515.40	0037	1196.	789.	0009	14	0000	0	
ATI	107	6	0039	0000	8	80 322	54 26.5'S	1 37.3'E	12	515.41	0039	5022.	4436.	0025	19	0000	0	
ATI	107	6	0040	0000	8	80 322	54 25.4'S	1 34.2'E	12	515.41	0040	3701.	2724.	0068	19	0000	0	
ATI	107	6	0041	0000	8	80 322	54 25.1'S	1 28.4'E	12	515.41	0041	1907.	1983.	01.4	19	0000	0	
ATI	107	6	0043	0000	8	80 323	54 24.4'S	0 19.8'E	12	515.41	0043	2095.	2272.	00.4	19	0000	0	
ATI	107	6	0046	0000	8	80 323	53 58.9'S	3 35.6'E	12	515.33	0046	2176.	2252.	00.2	16	0000	0	
ATI	107	6	0047	0000	8	80 324	54 7.5	3 33.1'E	12	515.43	0047	2069.	1895.	00.3	16	0000	0	
ATI	107	6	0048	0000	8	80 324	54 1.8'S	3 31.3'E	12	515.43	0048	1901.	2178.	0016	16	0000	0	
ATI	107	6	0051	0000	8	80 325	54 11.9'S	4 35.6'E	12	515.44	0051	3142.	2536.	0006	19	0000	0	
ATI	107	6	0052	0000	8	80 325	54 25.5'S	4 43.9'E	12	515.44	0052	973.	1001.	0064	12	0000	0	
ATI	107	6	0053	0000	8	80 325	54 13.5'S	5 10.5'E	12	515.45	0053	2810.	2364.	0018	16	0000	0	
ATI	107	6	0055	0000	8	80 326	54 17.6'S	5 18.5'E	12	515.45	0055	2355.	2010.	0033	16	0000	0	
ATI	107	6	0056	0000	8	80 326	54 23.8'S	5 8.2'E	12	515.45	0056	3664.	3122.	0036	16	0000	0	
ATI	107	6	0057	0000	8	80 326	54 2.7'S	7 13.4'E	12	515.47	0057	3648.	1920.	0034	16	0000	0	
ATI	107	6	0058	0000	8	80 326	53 58.8'S	7 20.4'E	12	515.37	0058	1507.	1316.	0071	12	0000	0	
ATI	107	6	0059	0000	8	80 327	54 1.1'S	7 14.1'E	12	515.47	0059	3501.	2520.	0011	16	0000	0	
ATI	107	6	0060	0000	8	80 327	53 25.7'S	9 9.1'E	12	515.39	0060	5899.	4207.	0070	19	0000	0	
ATI	107	6	0061	0000	8	80 328	53 25.1'S	9 11.9'E	12	515.39	0061	5073.	4063.	0060	19	0000	0	
ATI	107	6	0063	0000	8	80 328	53 23.3'S	9 20.3'E	12	515.39	0063	4051.	4180.	0012	19	0000	0	
ATI	107	6	0064	0000	8	80 328	53 19.2'S	9 8.4'E	12	515.39	0064	5024.	3874.	0003	19	0000	0	
ATI	107	6	0065	0000	8	80 328	53 14.3'S	9 11.6'E	12	515.39	0065	4729.	2692.	0022	19	0000	0	
ATI	107	6	0066	0000	8	80 328	53 8.8'S	9 11.5'E	12	515.39	0066	2619.	2214.	0068	19	0000	0	
ATI	107	6	0067	0000	8	80 329	53 14.4'S	9 27.6'E	12	515.39	0067	5311.	4025.	0024	19	0000	0	
CHN	115	4	0050	0000	8	74 3 8	54 13.7'S	4 3.1'E	9	515.44	0008	1806.	1938.	9.2K	19	0000	0	
ISO	1	1	0056	0000	8	761130	54 5.5'S	6 17.1'E	9	515.46	0056	4390.	3650.	0045	19	0000	0	
ISO	1	1	0057	0000	8	7612 1	54 8.3'S	6 29.3'E	9	515.46	0057	3100.	2830.	0001	19	0000	0	
ISO	1	1	0058	0000	8	7612 1	54 4.3'S	6 23.9'E	9	515.46	0058	3580.	2960.	0112	19	0000	0	
ISO	1	1	0059	0000	8	7612 1	54 3.4'S	6 30.0'E	9	515.46	0059	2520.	2340.	0150	19	0000	0	
ISO	1	1	0060	0000	8	7612 1	54 2.7'S	6 29.2'E	9	515.46	0060	2780.	2500.	0159	19	0000	0	
ISO	1	1	0061	0000	8	7612 1	53 59.7'S	6 25.0'E	9	515.36	0061	4720.	4570.	0003	19	0000	0	
ISO	1	1	0062	0000	8	7612 2	53 54.2'S	6 20.5'E	9	515.36	0062	2835.	2300.	0054	19	0000	0	
ISO	1	1	0063	0000	8	7612 2	53 51.5'S	6 24.1'E	9	515.36	0063	3110.	2560.	0004	19	0000	0	

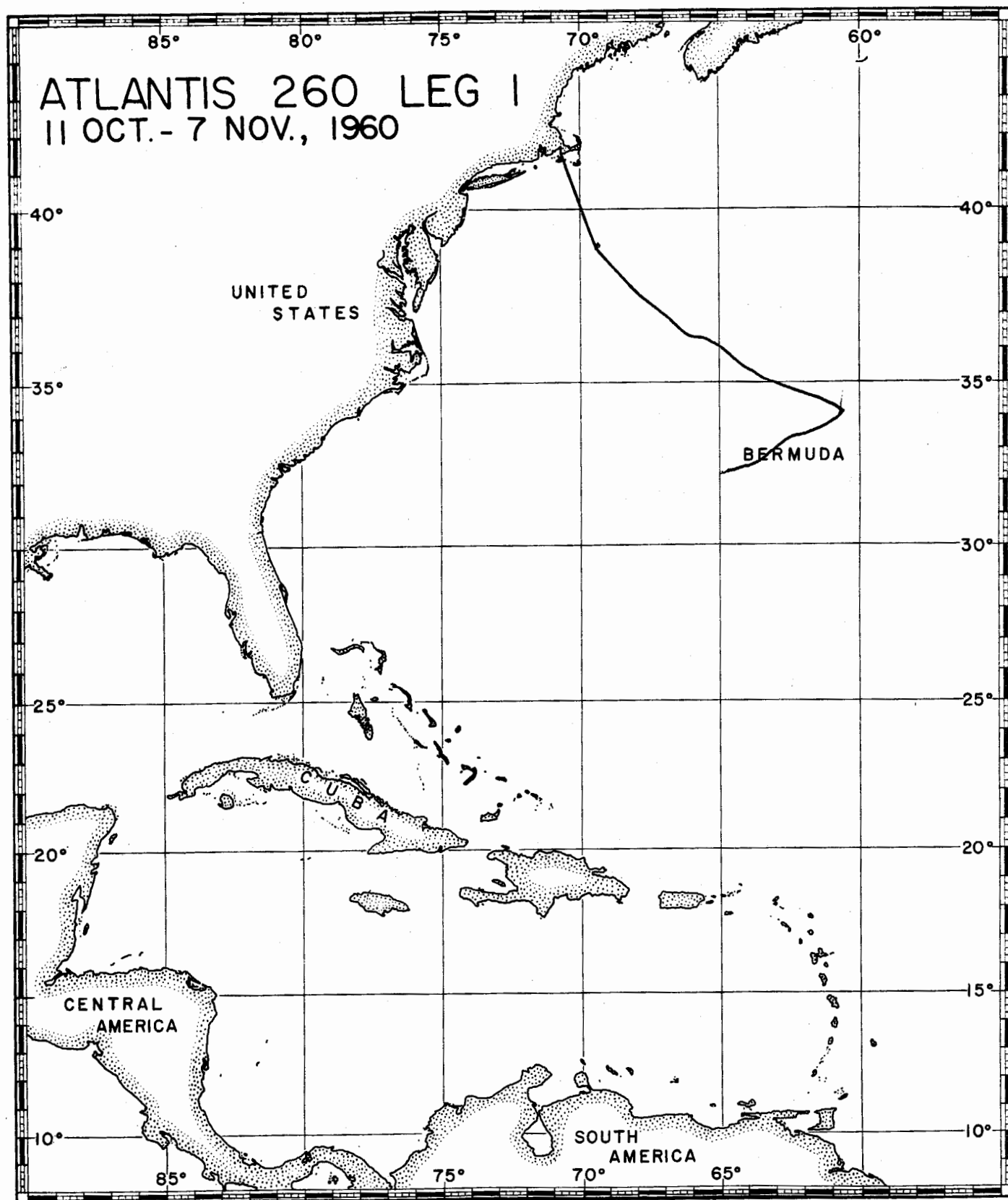
THERE WERE 717 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

\*STOP\* THAT IS ALL FOR NOW



DESCRIPTIONS OF W.H.O.I. ROCK DREDGE  
SAMPLES, VOLUME I.



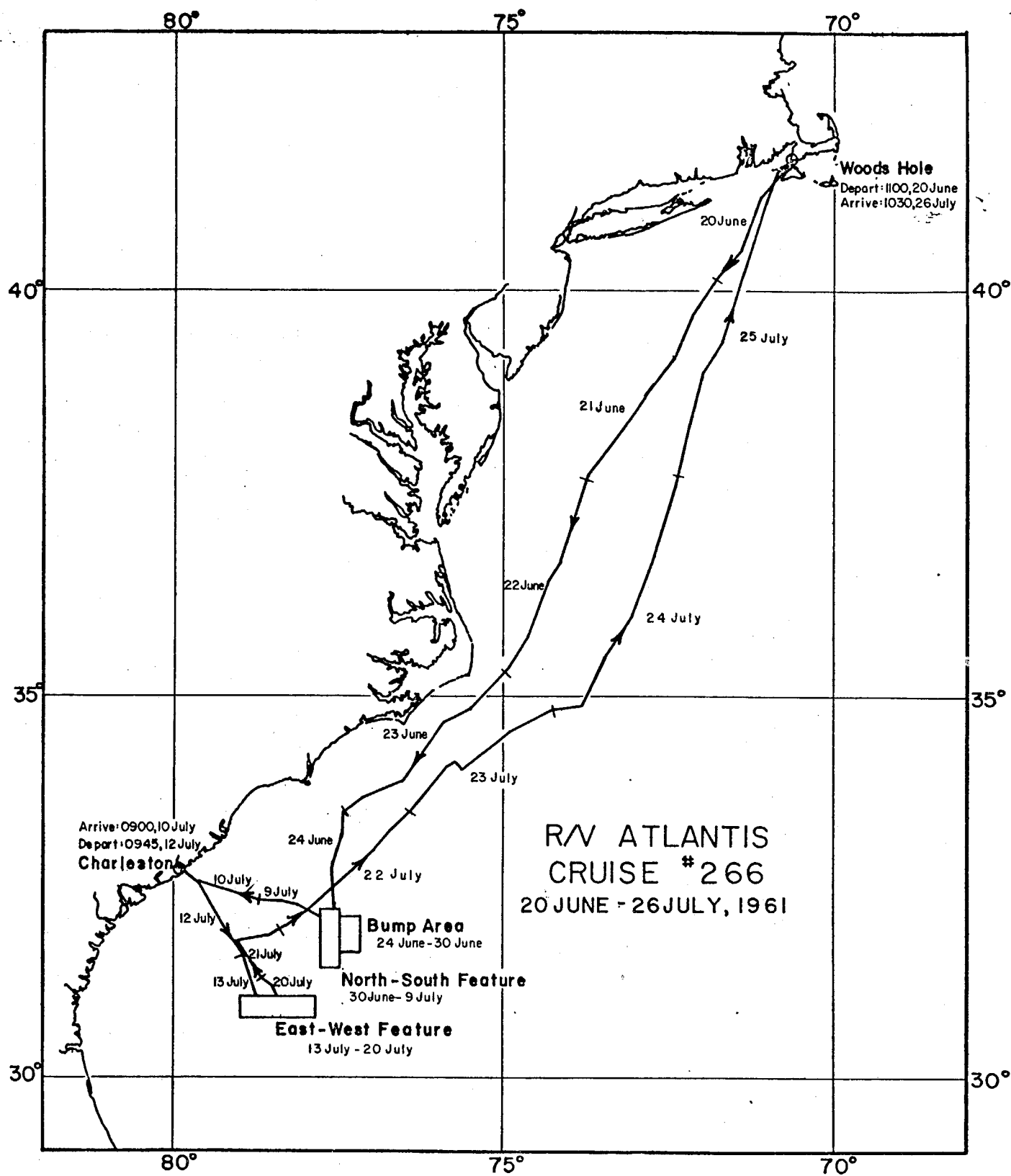
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 STATION DATA RETRIEVAL  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMMDDA	LATITUDE	LONGITUDE	FIX	MARS- DEN	CORE NO DREDGE	WARS- DEN	SQUARE	DEPTH	CORE LENGTH OR ENC	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	REMARKS
ATL	260	1	0003	0000	7	601012	40 4.0°N	69 1.5°W	5	151.09	0003	760.	722.	3.8K	25	0000	0			
ATL	260	1	0004	0000	7	601012	40 3.6°N	69 2.0°W	5	151.09	0004	555.	333.	010K	25	0000	0			
ATL	260	1	0007	0000	7	601018	33 34.0°N	62 26.0°W	5	115.32	0007	1542.	1497.	113G	12	0000	0			
ATL	260	1	0008	0000	7	601018	33 36.0°N	62 25.5°W	5	115.32	0008	1422.	1422.	8.9K	12	0000	0			
ATL	260	1	0009	0000	7	601020	33 36.5°N	62 24.5°W	5	115.32	0009	2553.	2630.	1.5K	12	0000	0			

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CRUISE ATLANTIS 260 STATION            DREDGE below DESCRIBED BY FARMER DATE Jan. 1971

Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
Sta 3	Dredge 3PD unfoss.										
	lutite	3.9K		Finely burrowed,	unfossiliferous, lithified lumps of lutite						
Sta. 4	Dredge 4PD										
	claystone	10K		Numerous small	& large fragments of claystone, some burrowed						~60% unfoss. ~40% calcareous
Sta 7	Dredge 7PD										
	coral	50G		Mn coated fragments							
	Glacial erratics	63G		Mn coated chips - red shale and granite							
Sta 8	Dredge 8PD										
	Coral	8.3K		Small, delicate, Mn coated							
	Mn nodules	0.5K									
Sta 9	Dredge 9PD										
	Coral	1.5K		Small, delicate, Mn coated							



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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR/MO/DA	LATITUDE	LONGITUDE	FIX TYPE	WARS- DEN	CORE OR DREDGE NUMBER	DEPTH	COPE		OR FNC	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
													LENGTH	DEPTH							
ATL	266	1	0002	0000	8	61 625	31 58.0°N	77 18.5°W	5	116.17	0002	843.	843.	020K	7	0000	0				
ATL	266	1	0003	0000	7	61 626	31 56.5°N	77 26.0°W	5	116.17	0003	739.	739.	012K	7	0000	0				
ATL	266	1	0004	0000	7	61 626	31 56.0°N	77 26.0°W	5	116.17	0004	815.	815.	012K	7	0000	0				
ATL	266	1	0005	0000	7	61 627	31 53.0°N	77 27.2°W	5	116.17	0005	815.	815.	020K	7	0000	0				
ATL	266	1	0006	0000	7	61 627	31 54.8°N	77 25.0°W	5	116.17	0006	739.	739.	014K	7	0000	0				
ATL	266	1	0007	0000	7	61 628	31 53.0°N	77 22.5°W	5	116.17	0007	834.	834.	010K	7	0000	0				
ATL	266	1	0008	0000	7	61 628	31 53.0°N	77 21.0°W	5	116.17	0008	834.	834.	7.9K	7	0000	0				
ATL	266	1	0012	0000	7	61 630	31 49.0°N	76 49.0°W	5	116.16	0012	1320.	1320.	1.2K	7	0000	0				
ATL	266	1	0016	0000	7	61 711	31 51.0°N	77 28.0°W	5	116.17	0016	689.	689.	015K	7	0000	0				
ATL	266	1	0017	0000	7	61 711	31 52.0°N	77 28.0°W	5	116.17	0017	676.	676.	017K	7	0000	0				
ATL	266	1	0018	0000	7	61 712	32 5.5°N	77 35.0°W	5	116.27	0018	677.	677.	454G	7	0000	0				
ATL	266	1	0019	0000	7	61 722	32 1.0°N	77 34.0°W	5	116.27	0019	684.	684.	567G	7	0000	0				
ATL	266	1	0020	0000	8	61 733	31 49.0°N	77 38.0°W	5	116.17	0020	692.	692.	567G	7	0000	0				
ATL	266	1	0021	0000	8	61 733	31 50.5°N	77 37.0°W	5	116.17	0021	696.	696.	016K	7	0000	0				
ATL	266	1	0022	0000	8	61 733	31 49.5°N	77 37.0°W	5	116.17	0022	705.	705.	018K	7	0000	0				
ATL	266	1	0025	0000	7	61 736	31 48.0°N	77 34.0°W	5	116.17	0025	668.	668.	1.4K	7	0000	0				
ATL	266	1	0026	0000	7	61 736	31 49.5°N	77 34.5°W	5	116.17	0026	865.	865.	010K	7	0000	0				
ATL	266	1	0040	0000	8	61 715	30 53.0°N	78 47.0°W	5	116.08	0040	836.	836.	026K	7	0000	0				
ATL	266	1	0041	0000	8	61 715	30 59.0°N	78 14.0°W	5	116.08	0041	903.	903.	9.1K	7	0000	0				
ATL	266	1	0042	0000	8	61 715	30 57.0°N	78 13.0°W	5	116.08	0042	834.	834.	013K	7	0000	0				
ATL	266	1	0043	0000	7	61 717	30 57.0°N	78 21.0°W	5	116.08	0043	954.	954.	9.1K	7	0000	0				
ATL	266	1	0045	0000	8	61 718	30 58.0°N	78 30.0°W	5	116.08	0045	833.	833.	044K	7	0000	0				
ATL	266	1	0046	0000	8	61 718	30 58.5°N	78 30.0°W	5	116.08	0046	847.	847.	4.8K	7	0000	0				
ATL	266	1	0047	0000	8	61 719	30 55.0°N	78 39.0°W	5	116.08	0047	842.	842.	6.6K	7	0000	0				
ATL	266	1	0049	0000	7	61 719	30 54.0°N	78 41.0°W	5	116.08	0049	845.	845.	4.3K	7	0000	0				
ATL	266	1	0050	0000	7	61 721	31 52.5°N	79 10.0°W	5	116.19	0050	489.	489.	3.9K	7	0000	0				
ATL	266	1	0051	0000	7	61 723	34 1.2°N	75 50.5°W	5	116.45	0051	659.	659.	001K	7	0000	0				
ATL	266	1	0052	0000	7	61 723	34 2.0°N	75 40.0°W	5	116.45	0052	1993.	1993.	1.3K	7	0000	0				

CRUISE	STATION	DREDGE	DESCRIBED	BY	DATE
ATLANTIS 266		below		FARMER	January 1971

[illegible]

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
Sta 6	Dredge 6PD										
	Coral	9.5K		Broken fragments							
	Globigerina ooze	1.4K									
	Calc lutite	2.9K		Lutite with forams & pteropods	common, also corals						
Sta 7	Dredge 7PD										
	Coral	10K		Broken fragments, some sea stars							
Sta 8	Dredge 8PD										
	Coral	3.4K		Fragments							
	Shell hash	1.1K		and some coral							
	Foram sand	2.4K									
Sta 12	Dredge 12PD										
	Pteropod sand	113G									
	Calc ooze	1.1K		Lutite							



WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE ATLANTIS 266 STATION            DREDGE See below DESCRIBED BY FARMER DATE January 1978

[illegible]

WHOI	ROCK	SAMPLE	DESCRIPTION
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DATE January 1978

## FARMER

ATLANTIS 266

STATION \_\_\_\_\_

DREDGE \_\_\_\_\_

See below DESCRIBED BY \_\_\_\_\_

FARMER \_\_\_\_\_

DATE \_\_\_\_\_

January 1978

[illegible]

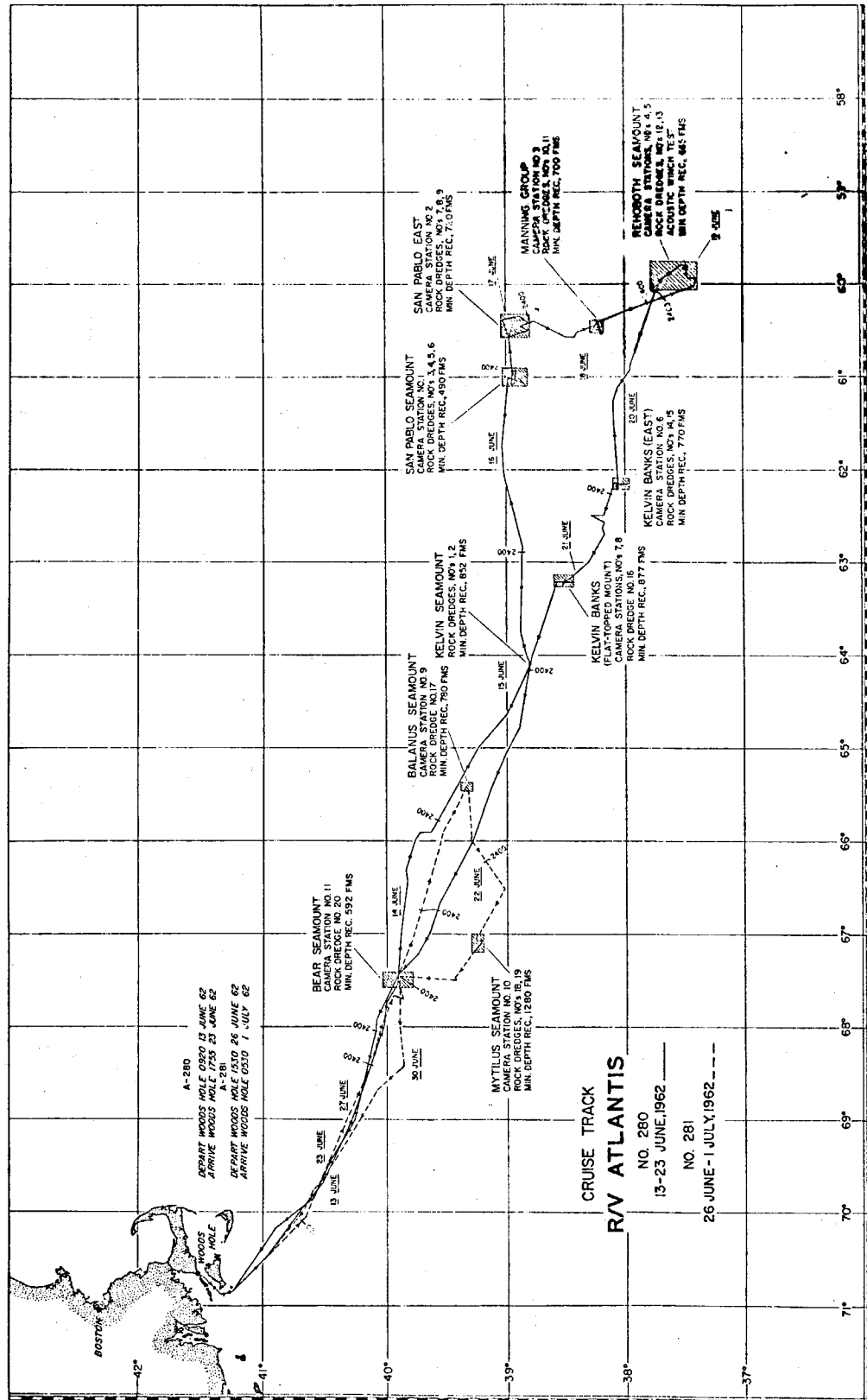
CRUISE ATLANTIS 266 STATION DREDGE BY FARMER DATE January 1978

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
Sta 41	Dredge 41 Mn nodules & pavement	9K									
Sta 42	Dredge 42PD										
	Foram sand	5.4K		Loose foram sand with pteropods & small phosphorite nodules							
	Mn	5.2K		Slabs and nodules							
	Limestone	2.0K		Indurated foram sand & coral							
Sta. 43	Dredge 43PD										
	Limestone	9.1K		Indurated foram/pteropod sand & loose oozes of same material							
Sta 45	Dredge 45										
	Mn pavement	34K									
	Mn pavement	10K		Limestone center with thick Mn accumulation							
Sta 46	Dredge 46										
	Mn slabs	1.7K									
	Limestone	3.2K		Cemented foram sandstones (with minor corals), burrowed & weathered							

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE ATLANTIS 266 STATION \_\_\_\_\_ DREDGE See below DESCRIBED BY FARMER DATE January 1978

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\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81\*\*\*\*\*  
\*\*\*\*\*PAGE 1  
\*\*WHQI\*\*

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
ATL	280	1	0003	0000	7	62 616	38 54.0°N	61 1.0°W	5	115.81	0003	1298.	1241.	2.3K	12	0000	0		
ATL	280	1	0004	0000	7	62 616	38 57.0°N	60 58.0°W	5	115.80	0004	1150.	1114.	227G	12	0000	0		
ATL	280	1	0005	0000	7	62 616	38 55.0°N	60 58.0°W	5	115.80	0005	1041.	1034.	010K	12	0000	0		
ATL	280	1	0006	0000	7	62 616	38 58.0°N	60 57.0°W	5	115.80	0006	935.	944.	009K	12	0000	0		
ATL	280	1	0009	0000	7	62 617	38 52.0°N	60 27.0°W	5	115.80	0009	1879.	1879.	227G	12	0000	0		
ATL	280	1	0010	0000	7	62 618	38 13.0°N	60 26.0°W	5	115.80	0010	1785.	1785.	012K	12	0000	0		
ATL	280	1	0012	0000	7	62 619	37 29.0°N	59 47.0°W	5	114.79	0012	1298.	1279.	4.5K	12	0000	0		
ATL	280	1	0013	0000	7	62 619	37 33.0°N	59 48.0°W	5	114.79	0013	1295.	1295.	680G	12	0000	0		
ATL	280	1	0014	0000	7	62 620	38 3.0°N	62 9.0°W	5	115.82	0014	1954.	1954.	011K	12	0000	0		
ATL	280	1	0015	0000	7	62 620	38 4.0°N	62 8.0°W	5	115.82	0015	1474.	1474.	2.3K	12	0000	0		
ATL	280	1	0016	0000	7	62 621	38 30.0°N	63 13.0°W	5	115.83	0016	1692.	1708.	011K	12	0000	0		

CRUISE ATLANTIS 280 STATION DREDGE See below DESCRIBED BY FARMER DATE January 1978

[illegible]

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE ATLANTIS 280 STATION DREDGE See below DESCRIBED BY FARMER DATE January 1978

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
Sta 10	Dredge 10PD										
	Coral	12K		Mn coated coral							
Sta 12	Dredge 12PD										
	Coral	4.5K		Mn coated coral (& some pebbles)							
Sta 13	Dredge 13PD										
	Coral	680G		Mn coated coral (& a little gravel)							
Sta 14	Dredge 14PD										
	Coral	2.9K		Coral fragments							
	Coral	6.6K		Lumps of coral	fragments mostly covered by						indurated foram ooze
	Calc ooze	1.8K		Calcareous mud	and sand						
	Gravel	113G		Mn coated gravel							
Sta 15	Dredge 15PD										
	Gravel	2.3K		Mn coated gravel (& a few corals)							



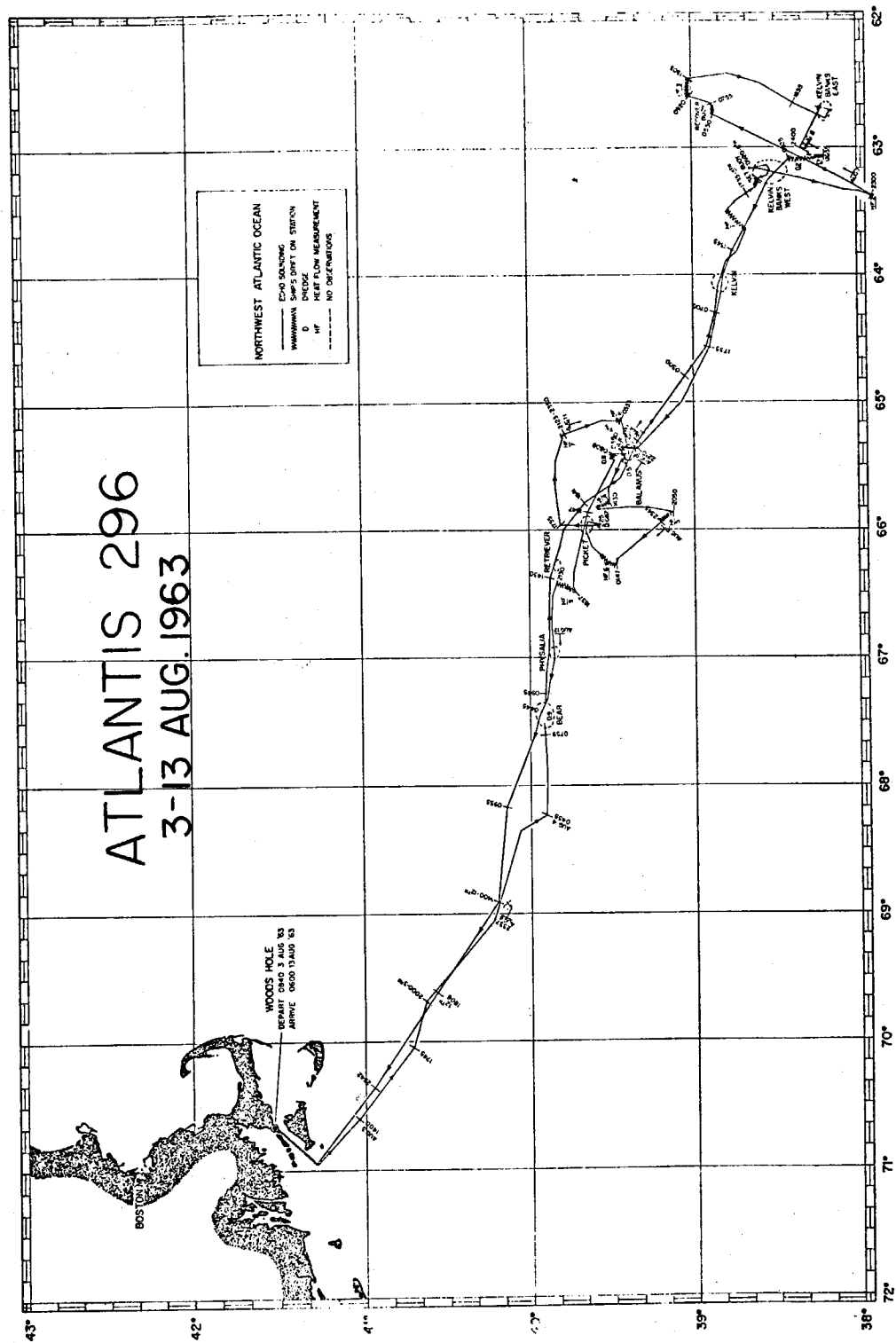
CRUISE ATLANTIS 280 STATION            DREDGE 16PD DESCRIBED BY FARMER DATE January 1978

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CRUISE ATLANTIS 281 STATION            DREDGE See below DESCRIBED BY FARMER DATE January 1978

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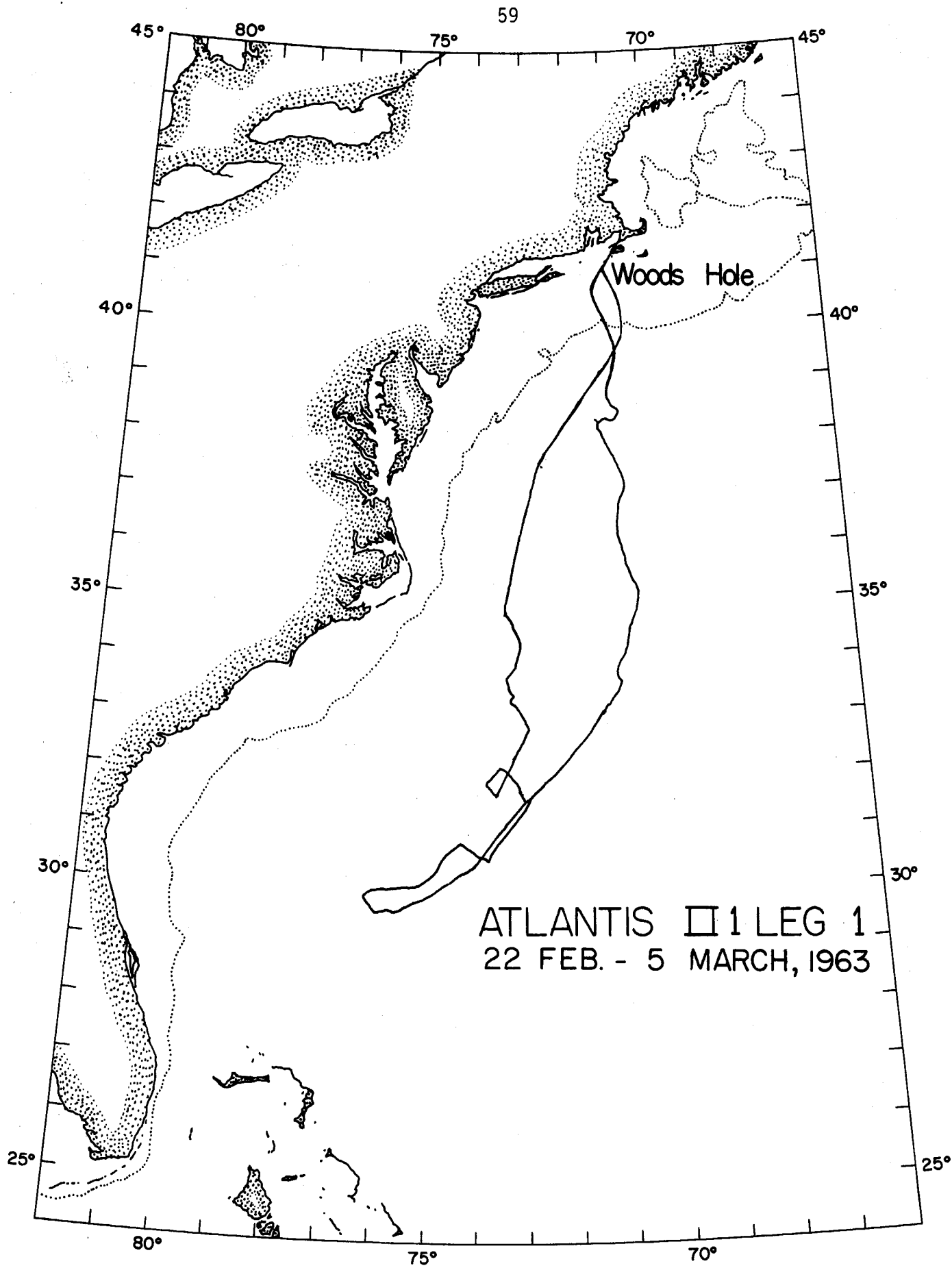


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 STATION DATA RETRIEVAL  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MON DAY	LATITUDE	LONGITUDE	FIX TYPE	MARS-- DEN	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
ATL	296	C	0001	0000	8	63 8 8	38 16.0°N	63 5.0°W	5	115.83	0001	3691.	3254.	1.5K	12	0000	0		
ATL	296	0	0002	0000	7	63 8 8	38 22.0°N	63 7.0°W	5	115.83	0002	3539.	3444.	010G	12	0000	0		
ATL	296	C	0003	0000	8	63 8 9	39 31.0°N	65 21.0°W	5	115.95	0003	3382.	3307.	001K	12	0000	0		
ATL	296	0	0004	0000	8	63 8 9	39 31.0°N	65 21.0°W	5	115.35	0004	4143.	3961.	1.6K	12	0000	0		
ATL	296	0	0006	0000	8	63 8 10	39 37.0°N	65 57.0°W	5	115.95	0006	3004.	1961.	007K	12	0000	0		
ATL	296	0	0007	0000	8	63 8 10	39 37.0°N	65 59.0°W	5	115.95	0007	3476.	2437.	011K	12	0000	0		
ATL	296	C	0008	0000	8	63 8 11	39 29.0°N	65 26.0°W	5	115.95	0008	2617.	2947.	008K	12	0000	0		





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STATION DATA RETRIEVAL  
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CORE	LENGTH	DREDGE	ROCK
OR	OR	PHYSIO-	OR
END	SAMPLE	GRAPHIC	SED. VITA
DEPTH	WEIGHT	PROV.	TYPE CODE
REMARKS			

MARS- CORE OP.  
EYX DEN DP EDGE

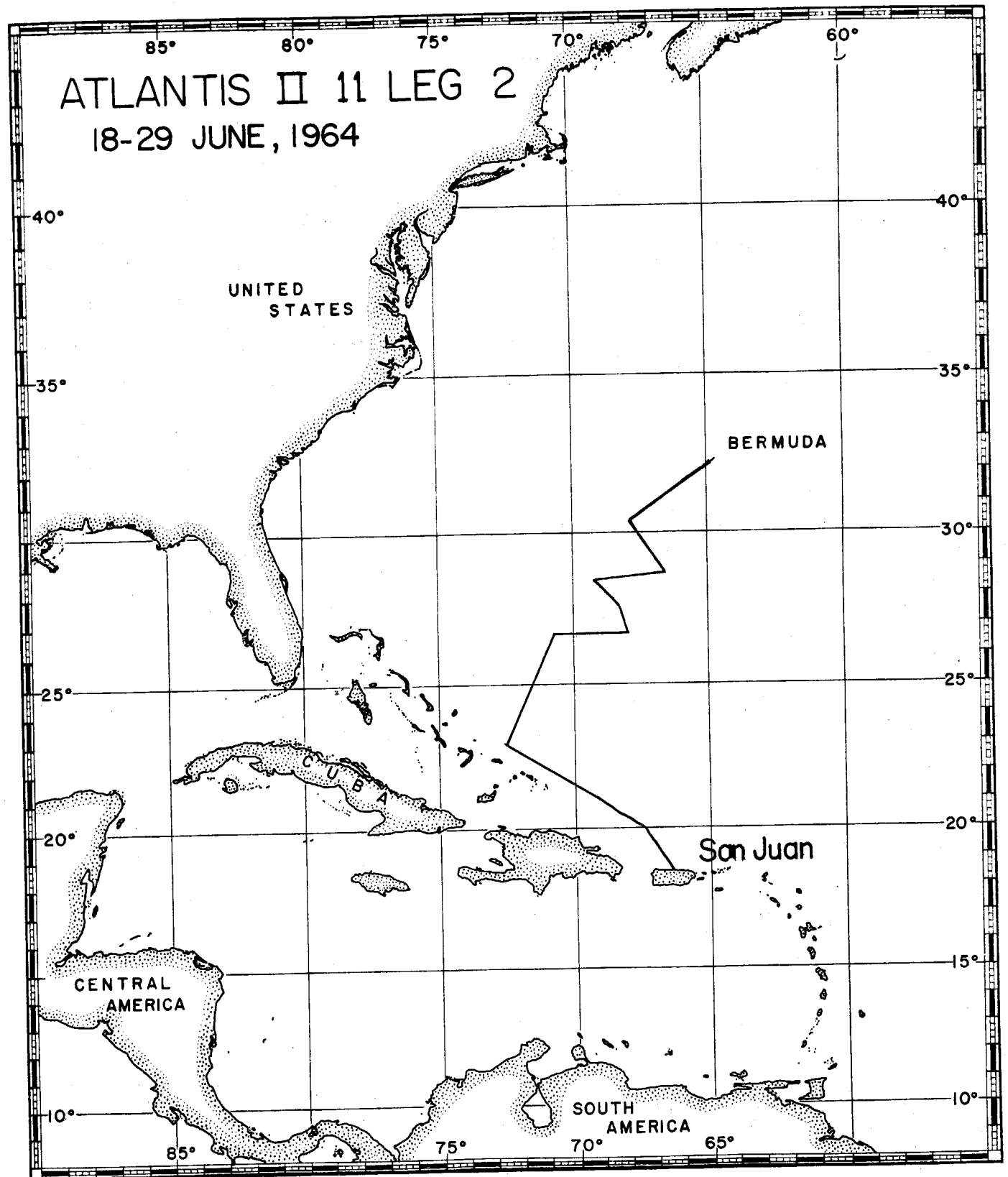
SHIP	CRUISE	LEG	STATION	SAMPLE	DE-	DATE
				NUMBFR	VICE	YRMODA
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04	04	04	04	04	04	04
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	1	0002	0000	7	63	3	4	39	43.0°N	70	42.6°W	5	116.90	0002	2027.	2027.	7.4K	4	0000	0
III	1	0002	0000	7	63	3	4	39	43.0°N	70	42.6°W	5	116.90	0002	2027.	2027.	7.4K	4	0000	0



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 STATION DATA RETRIEVAL  
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 SHIP CRUISE LEG STATION  
 SAMPLE DE- DATE  
 NUMBER VICE YRMO  
 LATITUDE LONGITUDE  
 FIX DEN MARS- CORE OR  
 TYPE SQUARE NUMBER DREDGE  
 CORE LENGTH DREDGE  
 OR OR OR  
 END SAMPLE PHYSIO- ROCK  
 DEPTH WEIGHT GRAPHIC SED. VITA  
 TYPE CODE REMARKS

ATI	11	2	0021	0000	8	64	7	5	20	6.0°N	65	8.0°W	5	79.05	0001	7861.	6671.	107K	5	0000	0
ATI	11	2	0022	0000	8	64	7	6	20	6.8°N	65	3.8°W	5	79.05	0002	7265.	6572.	200K	5	0000	0
ATI	11	2	0024	0000	8	64	7	7	20	6.0°N	65	7.0°W	5	79.05	0003	7463.	6078.	046K	5	0000	0
ATI	11	2	0025	0000	8	64	7	8	20	.8°N	65	9.0°W	5	79.05	0004	8140.	7463.	073K	5	0000	0
ATI	11	2	0026	0000	8	64	7	9	19	59.0°N	65	14.0°W	5	79.95	0005	7244.	7190.	027K	5	0000	0
ATI	11	2	0028	0000	8	64	7	9	19	59.5°N	65	1.7°W	5	43.95	0006	7942.	7662.	5.9K	5	0000	0
ATI	11	2	0030	0000	8	64	7	10	20	8.0°N	65	3.5°W	5	79.05	0008	7352.	7287.	118K	5	0000	0
ATI	11	2	0032	0000	8	64	7	11	19	17.7°N	65	10.4°W	5	43.95	0010	7023.	6729.	030K	5	0000	0
ATI	11	2	0033	0000	8	64	7	11	19	16.9°N	65	5.3°W	5	43.95	0011	6749.	6513.	007K	5	0000	0
ATI	11	2	0034	0000	8	64	7	12	19	4.6°N	66	9.0°W	5	43.96	0012	4983.	4105.	2.9K	5	0000	0

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE \_\_\_\_\_ STATION 21 \_\_\_\_\_ DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_ BRODA/FARMER \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

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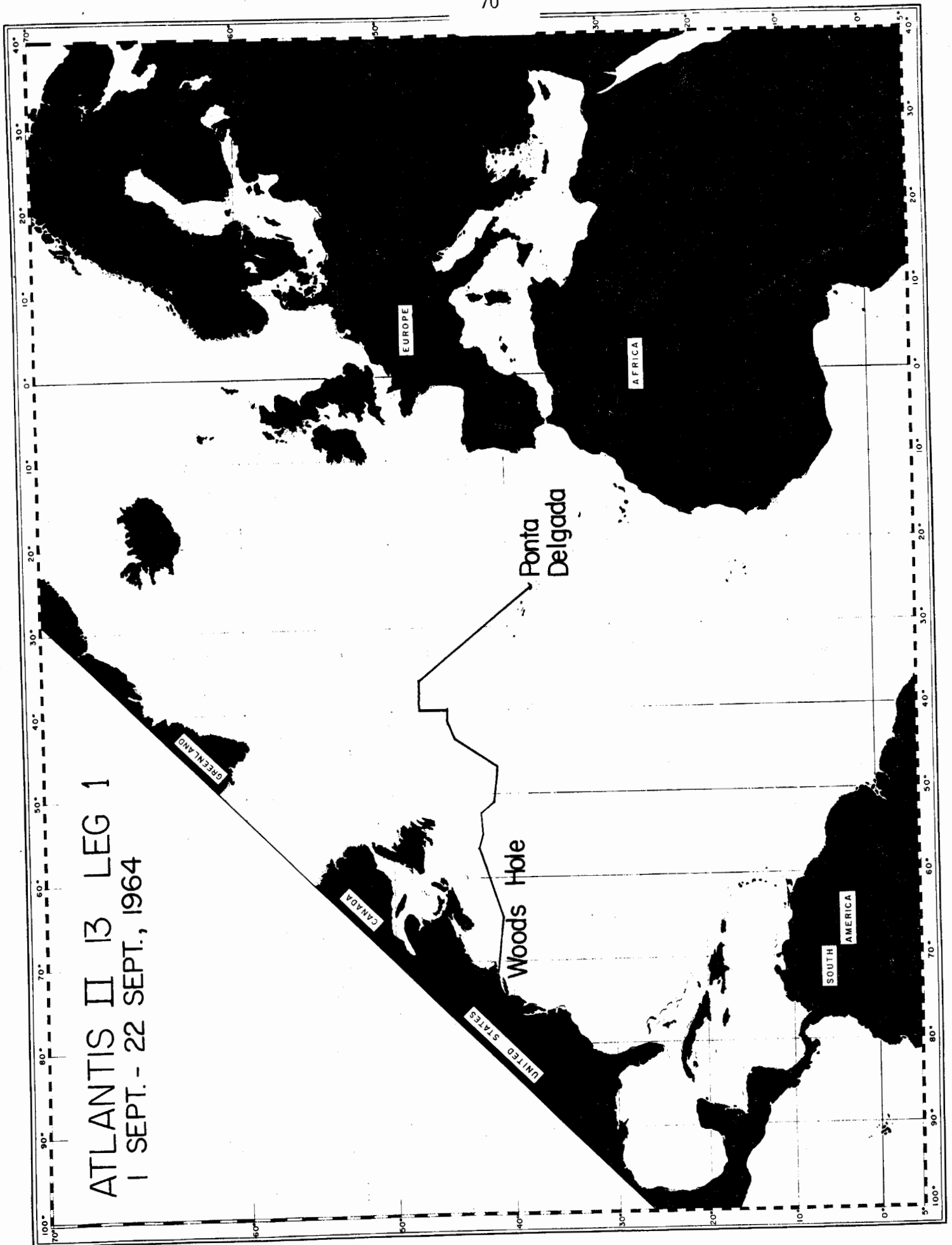
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DATE \_\_\_\_\_

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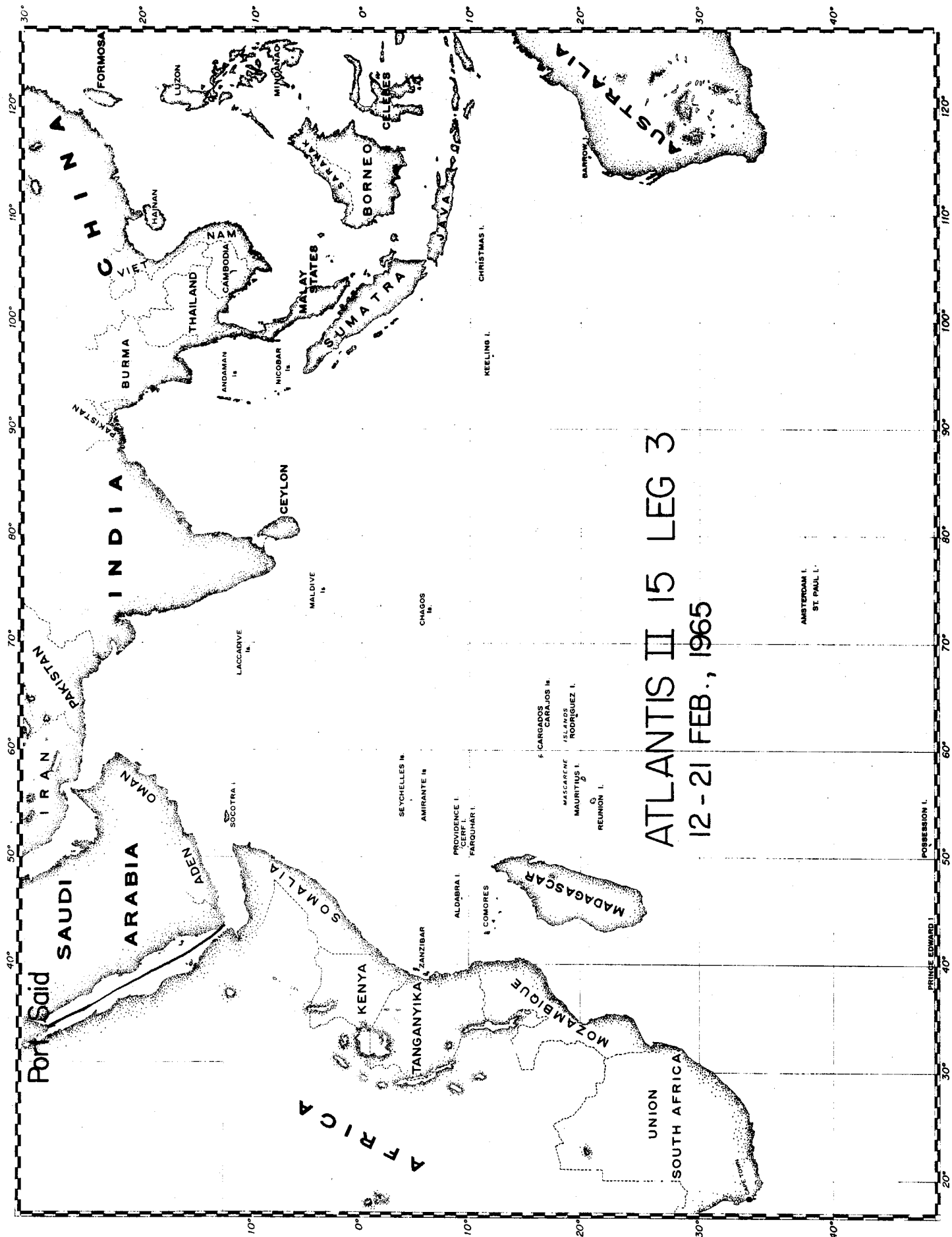


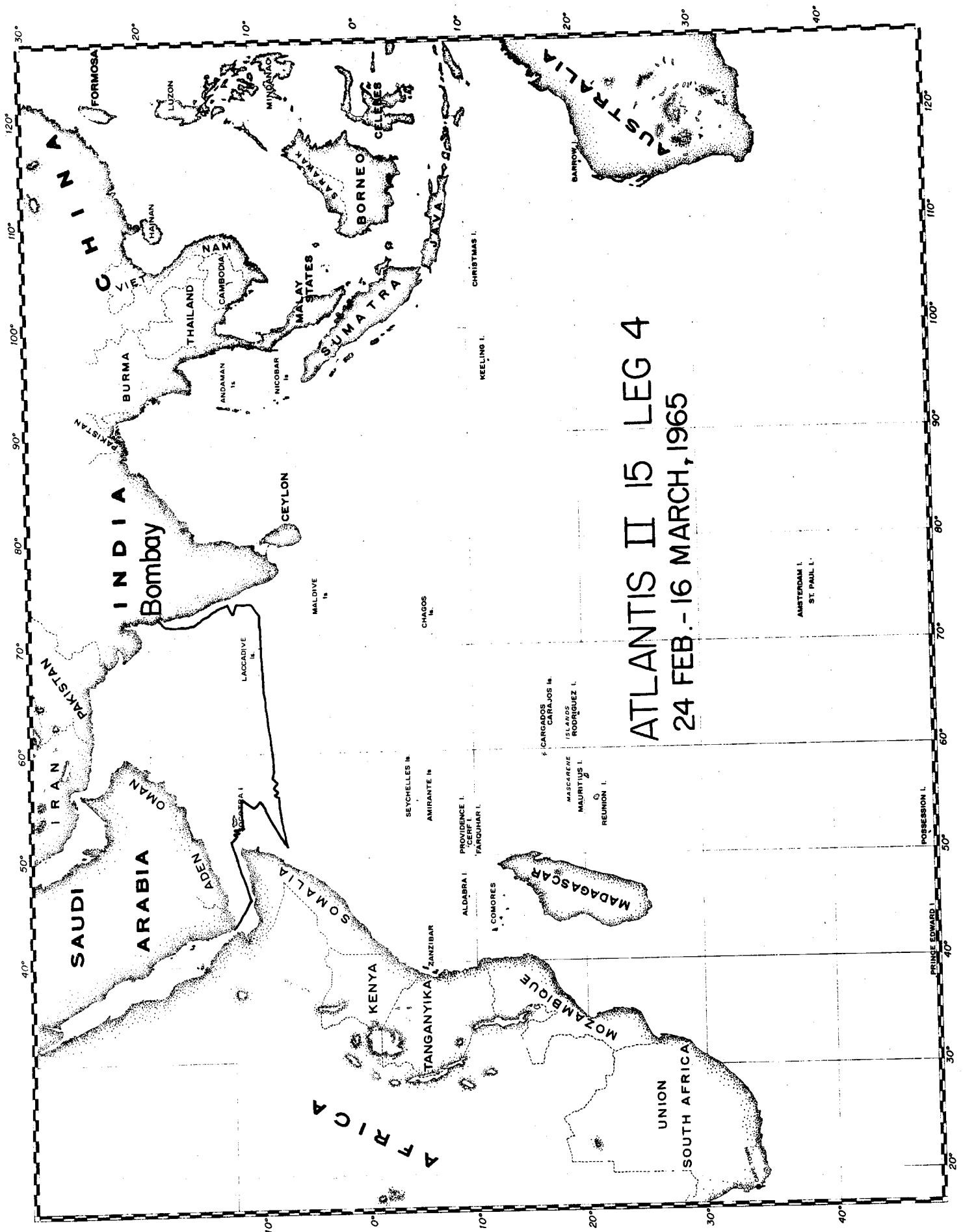












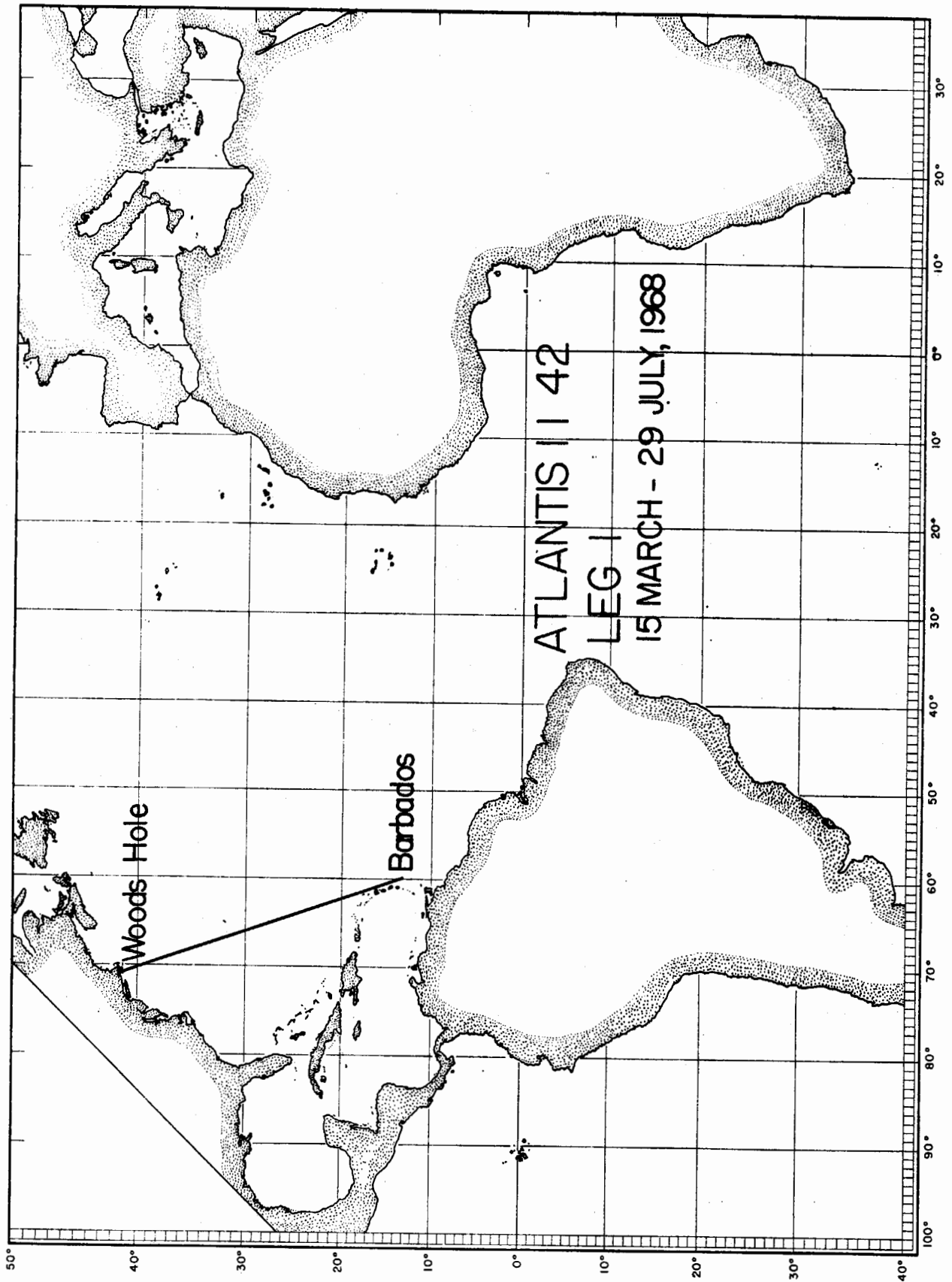
ATLANTIS II 15 LEG 4  
24 FEB.-16 MARCH, 1965

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\*\*\*\*\*STATION DATA RETRIEVAL  
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\*\*\*\*\*PAGE 1  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX	DEN	MAPS- SQUARE	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	TYPE	CODE	REMARKS
ATI	15	3	0008	0000	8	65 213	30 21.5°N	32 19.0°E	1	141.02	0001	7.	0.	227G	99	0000	0	BITTER LAKE			
ATI	15	3	0009	0000	8	65 213	30 19.5°N	32 19.7°E	1	141.02	0002	9.	0.	227G	99	0000	0	BITTER LAKE			
ATI	15	3	0015	0000	8	65 214	30 20.9°N	32 25.7°E	1	141.02	0003	9.	0.	227G	99	0000	0	BITTER LAKE			
ATI	15	3	0016	0000	9	65 214	30 23.0°N	32 24.0°E	1	141.02	0004	4.	0.	227G	99	0000	0	BITTER LAKE			
ATI	15	3	0017	0000	8	65 214	30 23.8°N	32 21.5°E	1	141.02	0005	5.	0.	227G	99	0000	0	BITTER LAKE			
ATI	15	3	0018	0000	8	65 214	30 23.4°N	32 18.8°E	1	141.02	0006	4.	0.	113G	99	0000	0	BITTER LAKE			
ATI	15	3	0019	0000	8	65 214	30 21.5°N	32 19.0°E	1	141.02	0007	7.	0.	113G	99	0000	0	BITTER LAKE			
ATI	15	4	0556	0000	10	65 228	9 .0°N	51 5.0°E	9	31.91	0556	977.	0.	113G	4	0000	0				
ATI	15	4	0557	0000	10	65 3 1	9 .0°N	51 25.0°E	9	31.91	0557	2580.	0.	456G	4	0000	0				





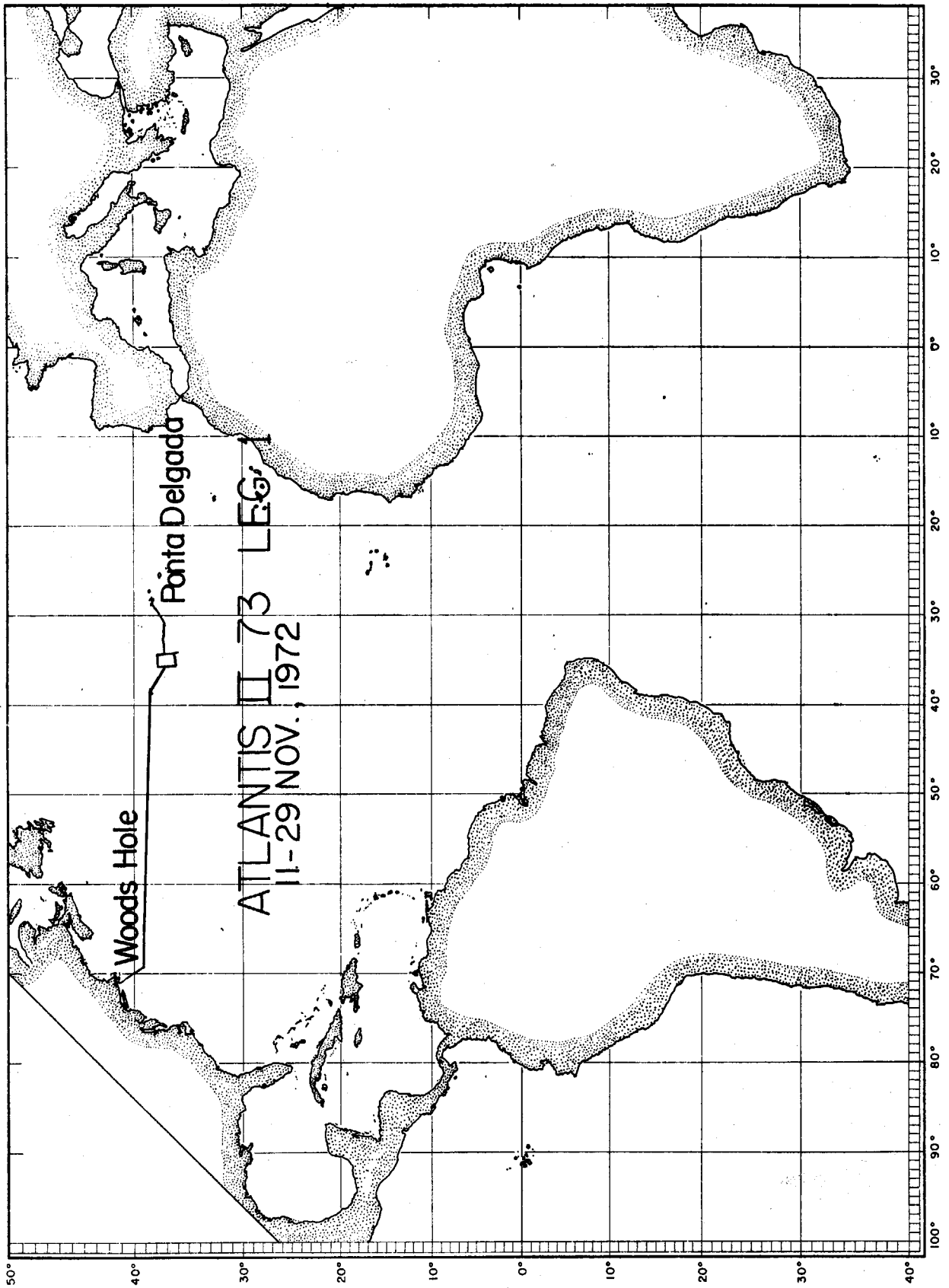


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 STATION DATA RETRIEVAL  
 DATE: 08:52 SEP 21, '81  
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SHIP	CRUISE	LEG	STATION	DE- NUMBER	DATE VICE YR	MODE	LATITUDE	LONGITUDE	FIX TYPE	DEN SQUARE	MARS- DREDGE NUMBER	COPE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSID- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS CODE
AII	42	1	0018	0000	8	68 713	19 27.8°N	46 5.6°W	3	41.96	0001	2861.	2861.	010K	16	0000	0
AII	42	1	0019	0000	8	68 713	19 32.3°N	46 6.1°W	1	41.96	0002	2278.	2278.	7.5K	16	0000	0

DATE \_\_\_\_\_

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\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81\*\*\*\*\*  
\*\*\*\*\*PAGE 1  
\*\*HHOI\*\*

SHIP	CRUISE	LEG	STATION	SAMPLE NUMRER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX	DEN	MARS- SQUARE	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
AI1	73	1	0010	0000	8	721124	36 44.71N	33 15.21W	11	112.63	0002	2328.	2391.	016K	14	0000	0			
AI1	73	1	0012	0000	8	721125	36 44.41N	33 16.71W	11	112.63	0003	2476.	2426.	120G	16	0000	0			
AI1	73	1	0014	0000	8	721125	36 44.51N	33 17.21W	11	112.63	0004	2519.	2475.	066K	16	0000	0			
AI1	73	1	0016	0000	8	721126	36 42.01N	33 17.61W	11	112.63	0005	2627.	2627.	6.6K	16	0000	0			
AI1	73	1	0018	0000	8	721126	36 44.51N	33 17.11W	11	112.63	0006	2589.	2589.	9.1K	16	0000	0			
AI1	73	1	0024	0000	8	721127	36 45.51N	33 21.21W	11	112.63	0008	1745.	1477.	073G	16	0000	0			
AI1	73	1	0038	0000	8	7212 6	36 29.71N	33 23.91W	11	112.63	0009	2626.	2626.	8.7K	16	0000	0			
AI1	73	1	0047	0000	8	7212 9	36 30.61N	33 25.31W	11	112.63	0012	2781.	2250.	017K	16	0000	0			
AI1	73	1	0050	0000	8	7212 9	36 29.31N	33 39.01W	11	112.63	0013	2589.	2589.	011K	16	0000	0			

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DATE March 19, 78[illegible]

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		AII 73		STATION		14		DREDGE		4		DESCRIBED BY		FARMER/BRODA		DATE		3/19/78	
Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks								
14-1	Glassy tubular basalt	.5	A		4-7% Pg Tr Ol	3-8%			F		All pieces are remarkably similar miniature tubes								
2	"	1	A		" "	"			"		" "								
3-10	"	2	A		" "	"			"		" "								
11	"	3.75	A		" "	"			"		" "								
12-19	"	2.5	A		" "	"			"		" "								
20	"	1.7	A		" "	"			"		" "								
21	"	1.7	A		" "	"			"		" "								
22	"	.5	A		" "	"			"		" "								
23-27	"	1.4	A		" "	"			"		" "								
28	"	1	A		" "	"			"		" "								
31	"	1	A		" "	"			"		" "								
32	"	1.5	A		" "	"			"		" "								
33, 34	"	22	A		" "	"			"		" "								
35	"	4.1	A		" "	"			"		lg lava tube, evidence of central cavity								
36	"	34.5	A		" "	"			"										
39	"	3.6	A		" "	"			"										
40	"	4.5	A		" "	"			"										

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE	STATION	DREDGE	5	DESCRIBED BY	DATE
AII	73			FARMER	23 March 78
	16				

[illegible]





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DATE 23 March 78

[illegible]

# WHOI ROCK SAMPLE DESCRIPTION

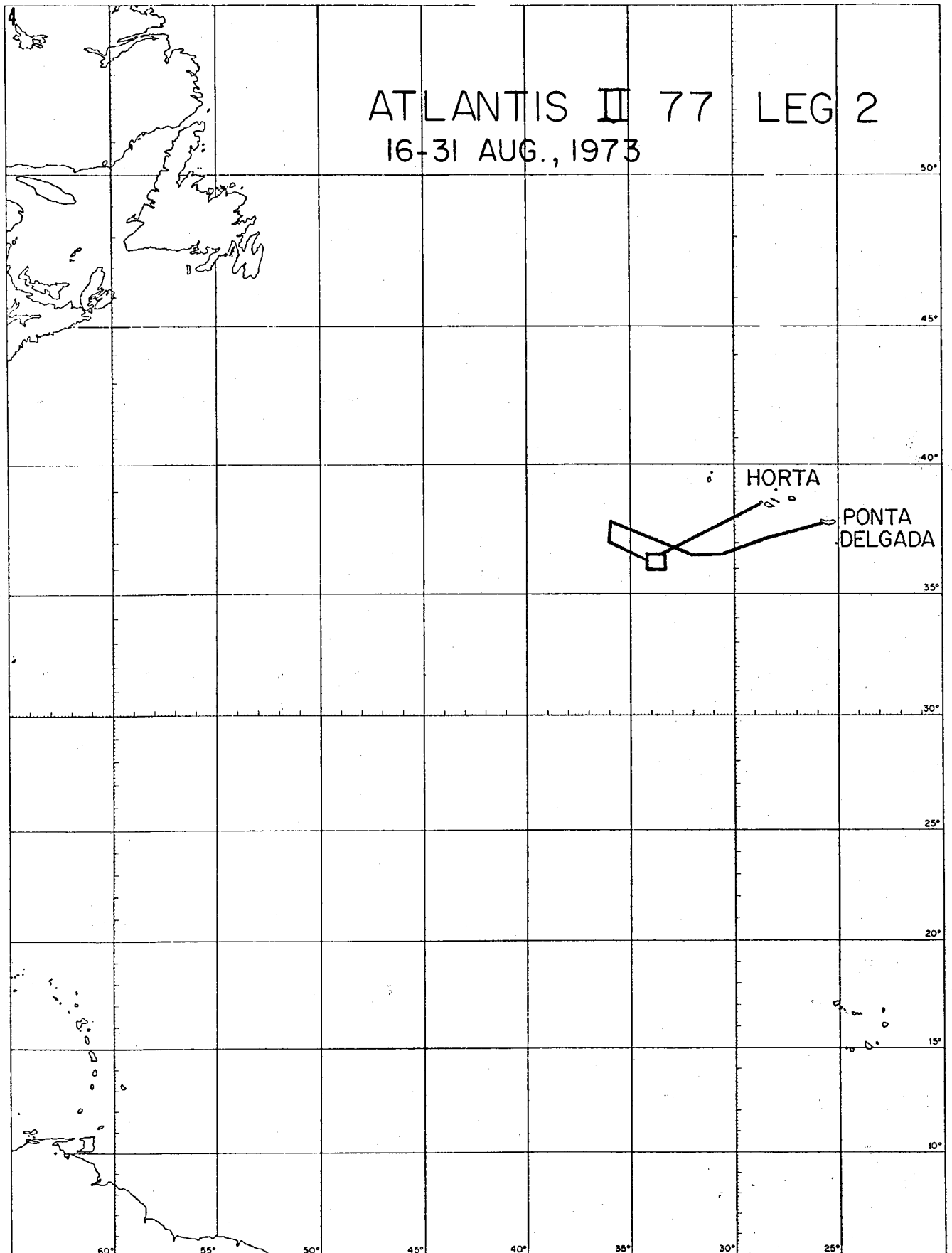
87

CRUISE ALL 73 STATION 47 DREDGE 12 DESCRIBED BY FARMER/DICK DATE     

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
21,26		kg						mm			
28-39,41	foram sandstone	3.6	F								
1	Serpentine	3.6	M	talc				1	L		
2	Serpentine	.1	A					.1	L		
3	Greenstone	.1	A					.1	L		
4	Serpentine/ Greenstone ?	.1						1	H		Porous
6	Serpentine	.1									Brecciated
7	Serpentine	.2						1.0	H		
8	Serpentine	<.1		talc				.2	H		
9	Serpentine	"						.1	H		Rudinite vein in center
10	Serpentine	.1		talc				.1	H		Chalk on outside
11	Basalt breccia	.1		talc				.2	H		CaCO <sub>3</sub> cemented breccia of basalt fragments
12	Serpentine greenstone	.2						1	H		
13	"	.2						.1	L		
14	Basalt	.2						.2	H		
15-18	Serpentine greenstone	.5						.1	M		
20-24	"	.6						.1- .5	M		#20-sheared fragment
25	Metagabbro	7	C					.5	L		

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DATE 3/23/78[illegible]



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STATION DATA RETRIEVAL  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
ATI	77	2	0019	0000	8	73 811	36 32.5°N	33 34.0°W	1	112.63	0002	2713.	2713.	6.8K	16	0000	0		
ATI	77	2	0023	0000	8	73 813	36 34.5°N	33 37.0°W	1	112.63	0003	2913.	2900.	4.9K	16	0000	0		
ATI	77	2	0026	0000	8	73 814	36 25.0°N	33 46.0°W	10	112.63	0004	2671.	2671.	016K	16	0000	0		
ATI	77	2	0028	0000	3	73 814	36 34.0°N	33 37.0°W	11	112.63	0005	2738.	2738.		16	0000	0		
ATI	77	2	0037	0000	8	73 820	36 43.0°N	33 20.0°W	11	112.63	0006	2437.	2437.	228K	16	0000	0		
ATI	77	2	0038	0000	8	73 820	36 43.0°N	33 20.5°W	11	112.63	0007	2443.	2443.	120K	16	0000	0		
ATI	77	2	0045	0000	8	73 820	36 35.0°N	33 42.5°W	10	112.63	0008	2500.	2500.	570G	16	0000	0		
ATI	77	2	0048	0000	8	73 821	36 37.0°N	33 31.0°W	11	112.63	0009	2437.	2437.	038K	19	0000	0		
ATI	77	2	0052	0000	8	73 822	36 35.0°N	33 31.5°W	11	112.63	0010	2437.	2437.	120K	16	0000	0		
ATI	77	2	0058	0000	8	73 823	36 27.5°N	33 35.0°W	11	112.63	0011	2231.	2231.	029K	16	0000	0		
ATI	77	2	0062	0000	8	73 824	36 27.0°N	33 55.0°W	10	112.63	0012	1408.	1408.	013K	14	0000	0		
ATI	77	2	0063	0000	8	73 824	36 26.0°N	33 53.5°W	10	112.63	0013	1876.	1876.	024K	14	0000	0		
ATI	77	2	0067	0000	8	73 826	36 26.5°N	33 40.0°W	11	112.63	0014	2616.	2616.	035K	16	0000	0		
ATI	77	2	0070	0000	8	73 826	36 26.5°N	33 41.0°W	9	112.63	0015	2437.	2437.	015K	16	0000	0		
ATI	77	2	0071	0000	8	73 827	36 24.4°N	33 40.8°W	9	112.63	0015	2500.	2700.	018K	16	0000	0		
**COMMENTS**																			
ANGUS CAMERA FRAME RECOVERED THIS BASALT																			
ATI	77	2	0076	0000	8	73 828	36 26.5°N	33 38.5°W	11	112.63	0016	2518.	2518.	198K	16	0000	0		



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE AII 77 STATION See below DREDGE See below DESCRIBED BY FARMER/BRODA DATE 3/15/78

Sample #	Lithology	Wt. kg	G.S.	Mineralogy	Phenocrysts	Ve	Am mm	Mn mm	We	Alteration	Remarks
STATION	37 Dredge 6					%					
37-1	Pillow basalt	34	A		45% Pg	4%	<.1	L			Thick glass with palagonite rind
2	" "	~ 45	A		"	"	"	L			" "
3	" "	"	A		"	"	"	L			" "
4	" "	~ 86	A		"	4%	"	L			Small internal canal
5-7,9-12	Basalt glass	18	A		50% Pg				F	Thick slabs of	glass and palagonite
8	Branching coral	.1									
STATION	38 Dredge 7										
1,2	Basalt lava tube	3.0	A		50% Pg, W/P	3%	<<.1	L			Phenocrysts and vesicles concentrated on outer rim and central portion of tube
21-33	" "	3.0	A		"	3%	"	L		"	"
18	Pillow basalt	2.5	A		40% Pg	7%		.2	L		Thin palagonitic rind w/Mn
34	Palagonitic rind chips	.3	A		40% Pg			.2	L		6 pieces total
9	Pillow basalt	55	A		45% Pg	2.5%		.2	L		Thin glass & palagonite rind
11	Pillow basalt	60	A		45% Pg	2.5%		.2	L		" "
STATION	45 Dredge 8										
	Basalt	570g	A		30% Pg, <1% OI	10		.5	L		Coral holdfasts worm tubes common



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE AII 77 STATION 48 DREDGE 9 DESCRIBED BY FARMER/BRODA DATE 16 Mar 78

Sample #	Lithology	Wt. kg	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	Breccia	1	C	Basalt & lime- stone w/CO <sub>3</sub> content				2-4 mm	L-H		Remarkable
2	"	1	C	"				"	"		"
6	Greenstone		F-M		Pg			.2-1	M		Basalt breccia 1-2cm
8	"										
9	"	4.4									
10	"										
11	"										
13	Conglomerate	11	F-C					2-3	H	pockets of calc ooze	Basalt-limestone-marl
15	Greenstone	90g	F					>>.1	M		
16	Basalt	400g	F		01v 21% (weathered)	15%	2%	.2	M		Palagonite rind preserved
17	Basalt	.6	A			tr		.2	L		
18	"										
19	"	1	A		1%Pg (1g.)	5%	tr	.2	L-M		breccia Indurated marl, basalt,
20	"	.4	A			3%		upto 10 M			Coral holdfast
23	"	.2	A		3% Pg (F)	7%		.1	M		"
24	Greenstone	.2	A		Px 2%	tr	1%	.2	M		Is, basalt breccia
25	Basalt	.3	A			3%		2	L-H		Coral w/basalt inclusion



## WHOI ROCK SAMPLE DESCRIPTION

 CRUISE ALL 77 STATION 52 DREDGE            DESCRIBED BY H. DICK DATE 1976

Sample #	Lithology	Wt. kg	G. S.	Minerology	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	Glassy basalt	1.4						.2- 1.	M		
2	Conglomerate	.7		Coral & basalt glass				.5	M	Palagonite	
3	Pillow basalt	7.2	A				C	.3	L-M		varioles & mud-filled vesicles common
4	Basalt	.2	A					.2	M-H		Calc ooze on surface
5	"	.5						.5- 1	H		
6,11,13,24	Serpentine	3.0						tr		Lightly altered	lt green
8,9	Basalt	.4	A			1%	C	.1	M-H		
10	Altered basalt	2.4	A-F					.1	"		
12,14	Basalt	1.8	A					.2	"		
16	Serpentine	.6		Aragonite crystals					L		dk green
17	Basalt	1.0	A					.3	H		
18	"	>14.5		uncut				.5			
19	Pg, Basalt	.6	A		5% Pg	5%		.5	L		
20	Glassy basalt	.6	A				S	tr	L-H		Variolitic
21	"	.5	A					.5	M	unaltered rock	Pillow margin - little left
22	Altered basalt	.6	A					.5	H		
25	Glassy basalt	.7	A					.1	L-M		Varioles - pillow margin
27,28	Basalt	1.3	A					.1	M-H		

# WHOI ROCK SAMPLE DESCRIPTION

96

CRUISE ALL 77 STATION 52 DREDGE \_\_\_\_\_ DESCRIBED BY H. DICK DATE 1976

Sample #	Lithology	Wt. Kg	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
30	Basalt	4.1	A				C	1-2	M-H		Variolitic pillow margin
31	Basalt	1.8	A				S	.2	M-H		
32	Glassy basalt	.7	A					.2	L-M		Variolites
33	Basalt	.8	A-F					.2	H		
34	Basalt	1.0	A					.1	M-H		Calc ooze on surface
35	Pg basalt	3.0	A		3% Pg			.2	M		
36	Basalt	.7	A					.1	M		
38	"	.8	A			15%		1	M		Mud-filled vesicles
37, 39-42	"	3.5	A					.1- 1.0	M		
44	Pg, basalt	.5	A		5% Pg			.2	M		
45-55	Basalt	5.5	A					.1- .3	M-H		
57	Glassy basalt	.3	A					.2	L-M		Variolitic
58	Basalt	.5	A			20%	tr	.2	H		Mud-filled vesicles
59	Basalt	.2	A				S	.2	M-H		
60	Basalt	.4	A					.1	M-H		
62	Basalt	.3	A			3%		.1	H		Mud-filled vesicles
63	Basalt	.4	A					.1	M		
64	Basalt	.4	A			2% filled		.1	M		Hematite spots

# WHOI ROCK SAMPLE DESCRIPTION

97

CRUISE A11 77 STATION 52 DREDGE \_\_\_\_\_ DESCRIBED BY H. DICK DATE 1976

Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
65,68	Basalt	kg .7						.2 M			
A2	Glassy basalt	.7	A					.1 L-H			Variolites
A3	Basalt	1.0	A					.1 M			
A4-A6	Serpentine	.3						tr			It rodentite vein on It green serpentine
A7	Serpentine	.2									Variolitic
A8	Glassy basalt	.1	A					.1 L-M			
A9	Basalt	.1	A				C		H		
A10	Glassy basalt	.2	A					.1 L-H			Variolitic pillow margin Amygdaloidal & variolitic
A11	Glassy basalt	.2	A				S	tr L-M			
A13	Pg, Basalt	.1	A		7% Pg	4%		.2 L-M			
A14	Basalt	.3	A				A	.1 H			
A15	Pg Basalt	.1	A		5% Pg	7%		.2 M			
A16	Glassy basalt	.1	A					.1 L-H			Variolitic
A18	Basalt	.1	A					1-2 M			
A19-A22	Glassy basalt	.7	A					.2 L-H			Variolitic
A23	Pg basalt	.1	A		7% Pg	7%		.3 L			
A24	Basalt	.3	A			15%		.1 M			Mud-filled vesicles
A25	"	.1	A					.2 M-H			



CRUISE AI 77 STATION 52 DREDGE \_\_\_\_\_ DESCRIBED BY H. DICK DATE \_\_\_\_\_

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WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE AIJ 77 STATION 58 DREDGE 11 DESCRIBED BY \_\_\_\_\_ DATE \_\_\_\_\_

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CRUISE AI1 77 STATION see below            DREDGE            DESCRIBED BY FARMER/BRODA DATE 16 Mar 78

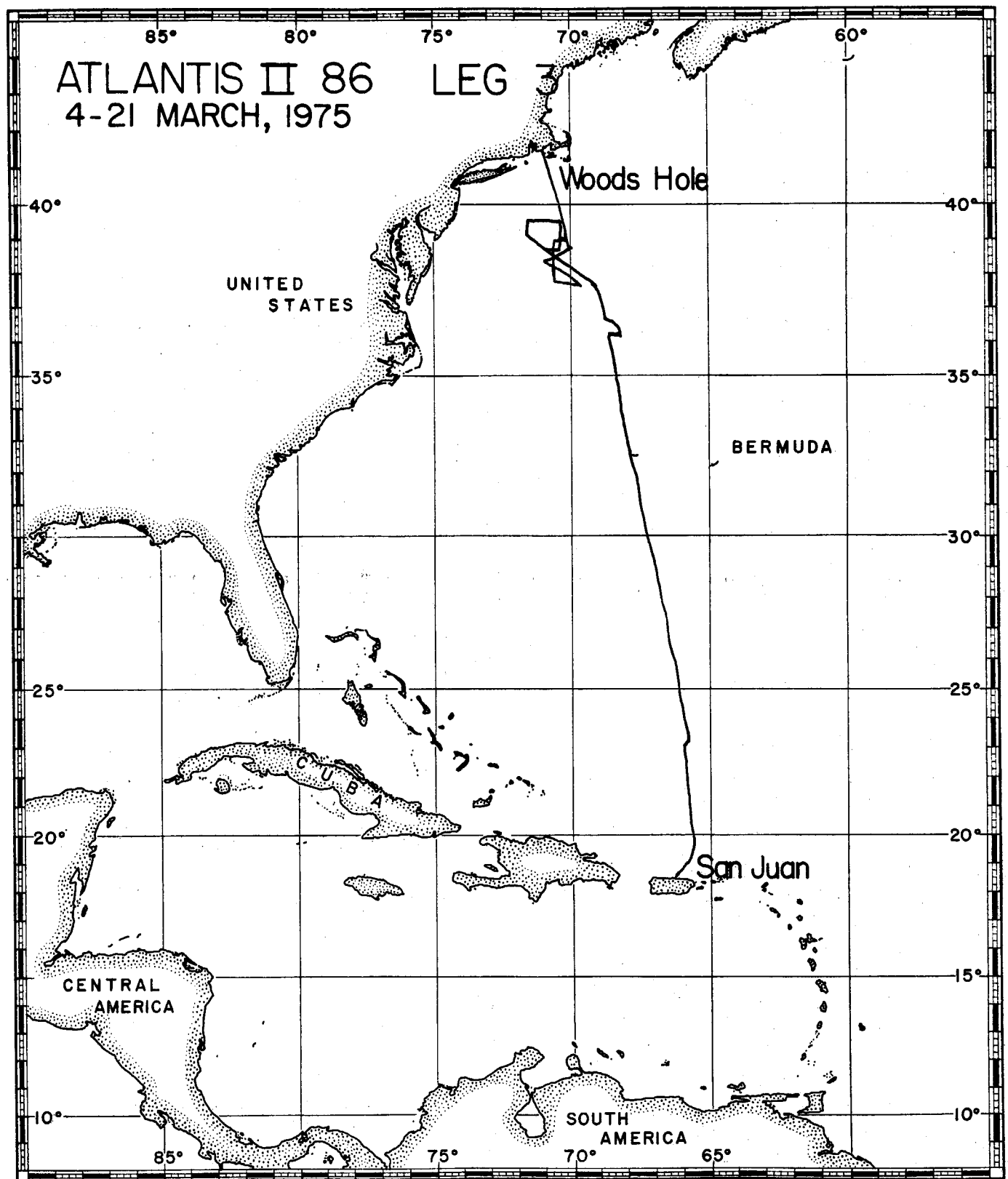
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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE	AII 77	STATION	76	DREDGE	16	DESCRIBED BY	BRODA/FARMER	DATE	Mar 78		
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1-10	Pillow basalt	kg 23	A		Pg 10% (fine) tr 01	5-7%		mm <.1	F	Glass rind	Blocky jointing preserved on #8
11-27	"	15	A		"	"		"	F		Blocky jointed
33	"	3.9	A			10%			F		
35	"	2.9	A			5-7%			F		
39	"	4.5	A			"			F		
32	"	5.2	A			"			F		
38	"	6.1	A			"			F		
36	"	6.3	A			"			F		
34	"	5.1	A			"			F		
37	"	11.8	A			"			F		
43	"	8.6	A			"			F		
44	"	23.2	A			"			F		
47	Glassy basalt	.5	A		Pg 1%	5%			F		Rim bound vesicles & phenos
29,46,51	Glassy basalt	1.5	A		Pg 5%	5%			F		Blocky jointed
31,52	Basalt	.7	A		(v.v. fine) 1% Pg+ tr 01	3%			F		
48,49,55,71	Glassy basalt rim	2.2	A		55% Pg(M-C) tr 01	.5%			F	Palagonite found throughout	
50,53,54,59 60,65-67	Basalt glass	4.0	A		1% Pg in rims	2%			VF		Nice





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STATION DATA RETRIEVAL  
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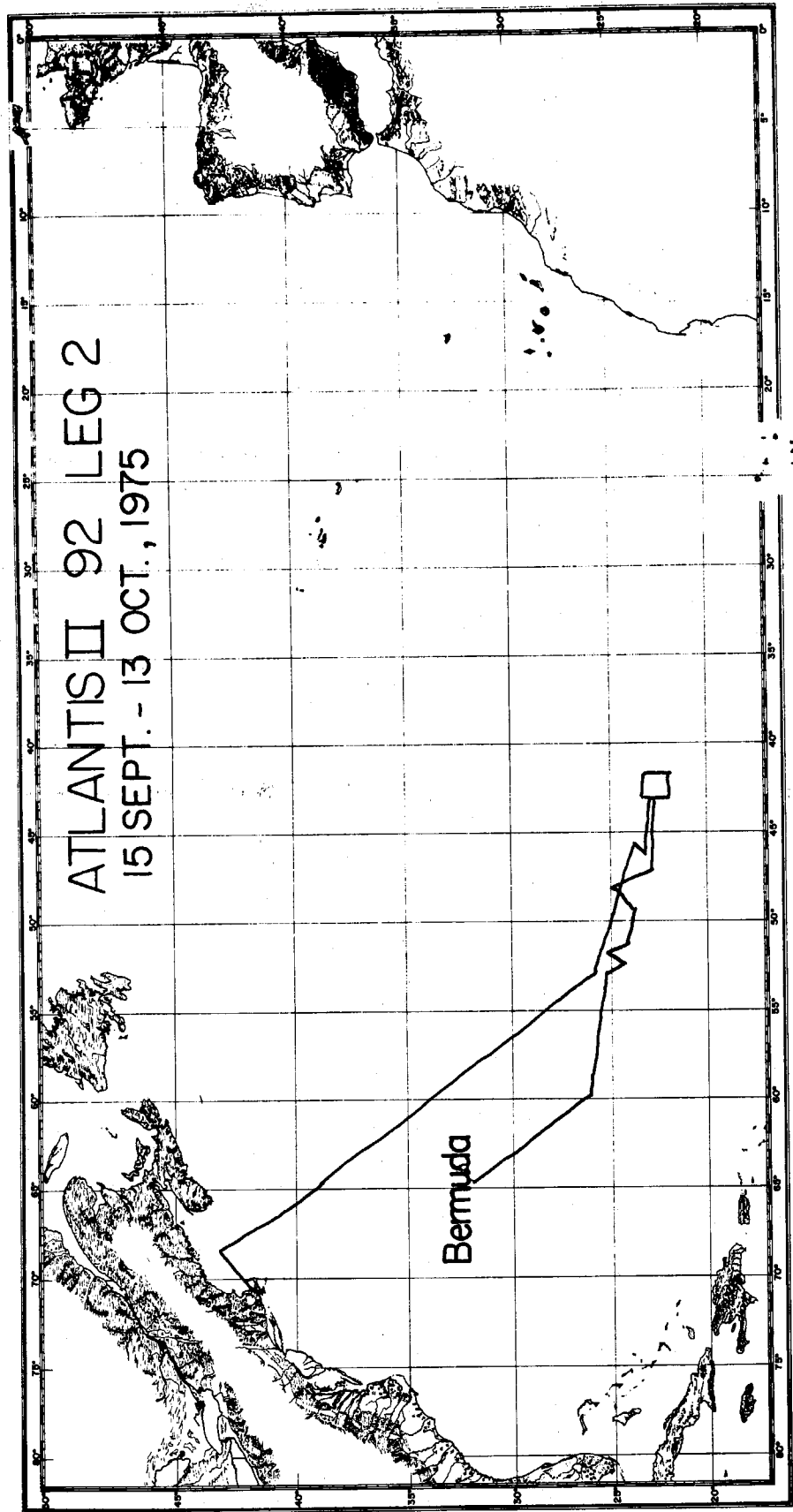
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\*\*WHOI\*\*

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MON DA	LATITUDE	LONGITUDE	FIX TYPE	DEN SQUARE	MARS- DREDGE	CORE OR DREDGE	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	ROCK OR GRAPHIC PROV.	PHYSIO- SED.	VITA	TYPE CODE	REMARKS
ATI	86	3	0417	0000	8	75 314	39 30.0°N	70 40.0°W	6	115.90	2460.	2480.	014K	6	0000	0	BEAM TRAWL		
ATI	86	3	0424	0000	8	75 316	39 27.0°N	70 28.0°W	6	115.90	2505.	2530.	011K	6	0000	0	41FT. TRAWL		
ATI	86	3	0432	0000	8	75 319	39 31.0°N	70 20.0°W	6	115.90	2350.	2450.	015K	6	0000	0	41FT TRAWL		

CRUISE     AII 86     STATION See below DREDGE            DESCRIBED BY     BRODA/FARMER     DATE     Mar 78    

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STATION DATA RETRIEVAL  
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\*\*WHOI\*\*

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	FIX	MARS- DEN	COPE OR DREDGE	DEPTH	END	LENGTH OR	DREDGE OR	PHYSIO- GRAPHIC	ROCK OR	VITA SED.	TYPE	CODE	REMARKS
								SQUARE	NUMBER	DEPTH	DEPTH			PROV.					
ALL	92	2	0028	0000	8	7510 5	23	2.8°N	45	4.5°W	12								
								77.35	0004	2278.	1701.		065K		16		0000	0	
ALL	92	2	0029	0000	8	7510 5	23	2.6°N	45	1.0°W	12								
								77.35	0005	2889.	2475.		100K		16		0000	0	
ALL	92	2	0030	0000	8	7510 6	23	2.4°N	44	53.4°W	12								
								77.34	0006	3231.	3554.		037K		16		0000	0	
ALL	92	2	0031	0000	8	7510 6	23	1.8°N	44	55.4°W	12								
								77.34	0007	3589.	3516.		160K		16		0000	0	

DATE Mar 78[illegible]

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DATE Mar 78

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## WHOI ROCK SAMPLE DESCRIPTION

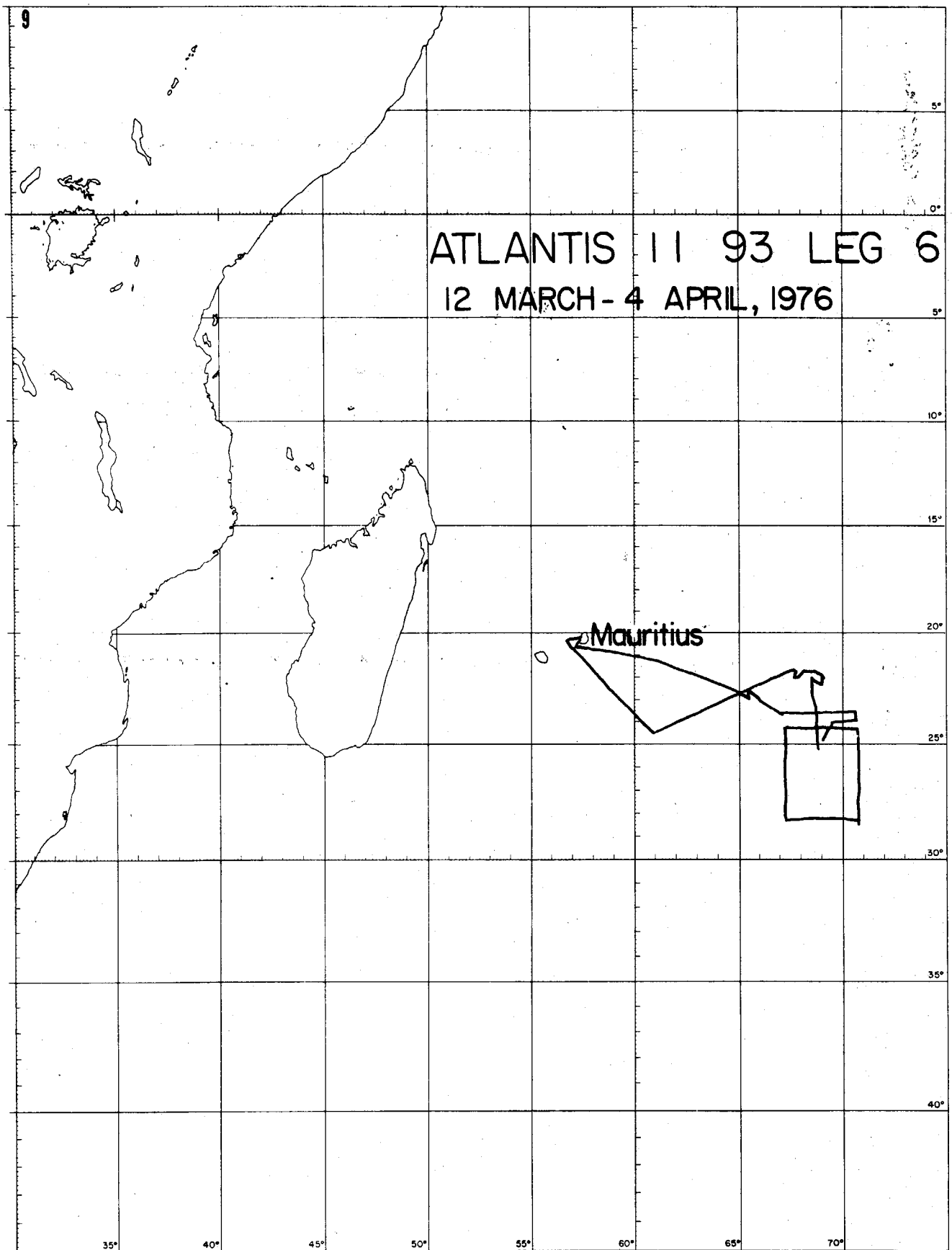
 CRUISE AIJ 92 STATION 31 DREDGE 6 DESCRIBED BY BRODA/FARMER DATE Mar 78

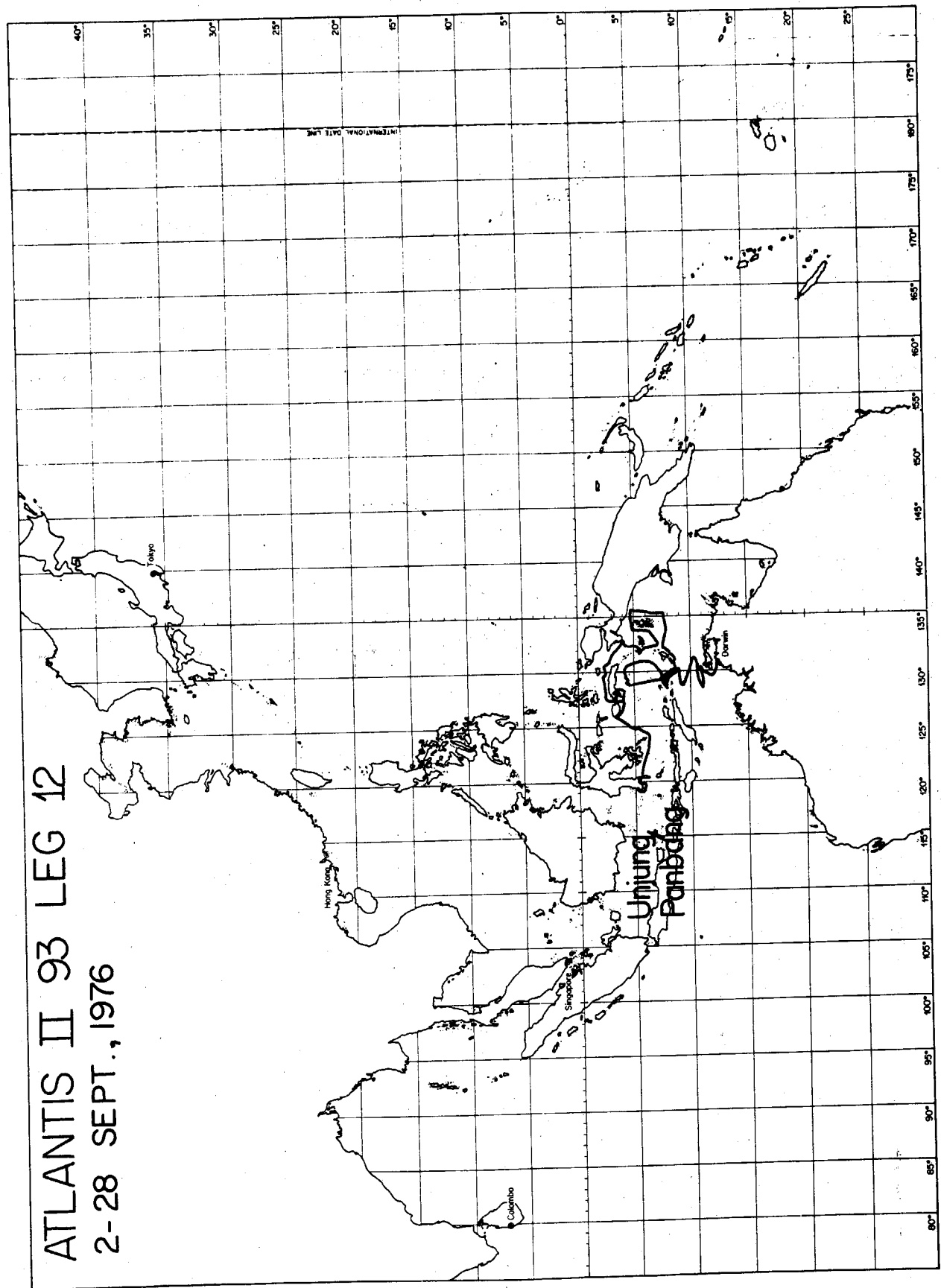
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	Basalt lava tube	kg 63.6	A		5-7% Pg	1%		Imm	F	Thin palagonite rust on glassy	Pheno's in concentric outer zones
13	"	1.25	A		9-13%Pg(coarse)	1-3%		"	"	rind	Vitreous glass cover 70-80% of surface
23	"	1.5	A		"	"		"	"		"
26	"	8.7	A		"	"		"	"		"
28	"	3.5	A		"	"		"	"		"
29	"	2.4	A		"	"		"	"		"
33	"	4.0	A		"	"		"	"		"
39	"	2.3	A		"	"		"	"		"
10,11,16	"	2.4	A		"	"		"	"		"
25,48,54	"	1.8	A		"	"		"	"		"
34	Basalt lava tube	2.5	A		2% Pg, conc. at periphery & very center	"		"	"		50% glass cover
27	"	5.4	A		"	.5%		"	"		Glass over 75% of tube
6-A&B	"	12.4	A		5% small, evenly distributed	4%			VF		Phenocrysts a bit more abundant in glassy rind
30	Basalt pillow fragments	6.8	A		5%-10% coarse Pg -restricted to rind zone	<1%		<.1	F		Glassy
19	"	2.5	A		"	"		"	F		
15	"	1.7	A		"	"		"	F		
7	"	1.5	A		"	"		"	F		
4	"	1	A		"	"		"			

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE AI1 92 STATION 31 DREDGE 6 DESCRIBED BY BRODA/FARMER DATE Mar 78

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\*\*\*\*\*STATION DATA RETRIEVAL  
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\*\*WHOI\*\*

SHIP	CRUISE	LEG	STATION	SAMPLE	DE- VICE	DATE YR/MO/DA	LATITUDE	LONGITUDE	FIX	MARS- DEN	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CCODE	REMARKS
ATI	93	6	0011	0000	8	76 317	24 58.8'S	70 07.1'E	9	400.40	0010	3512.	3522.	104K	16	0000	0		
ATI	93	6	0012	0000	8	76 317	24 40.5'S	70 02.7'E	9	400.50	0011	3445.	3323.	043K	14	0000	0		
ATI	93	6	0014	0000	8	76 328	25 42.6'S	69 33.5'E	9	401.59	0013	3609.	3256.	086K	14	0000	0		
ATI	93	6	0015	0000	8	76 328	25 46.8'S	70 11.0'E	9	400.50	0014	3521.	3097.	024K	16	0000	0		
ATI	93	6	0018	0000	8	76 330	25 35.5'S	69 55.8'E	9	401.59	0016	3865.	3079.	040K	16	0000	0		
ATI	93	12	0044	0000	8	76 919	5 20.6'S	131 54.4'E	2	322.51	0018	1551.	695.	500G	3	0000	0		

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE AIJ 93 STATION 11 DREDGE 10 DESCRIBED BY FARMER/BRODA DATE Feb. 79

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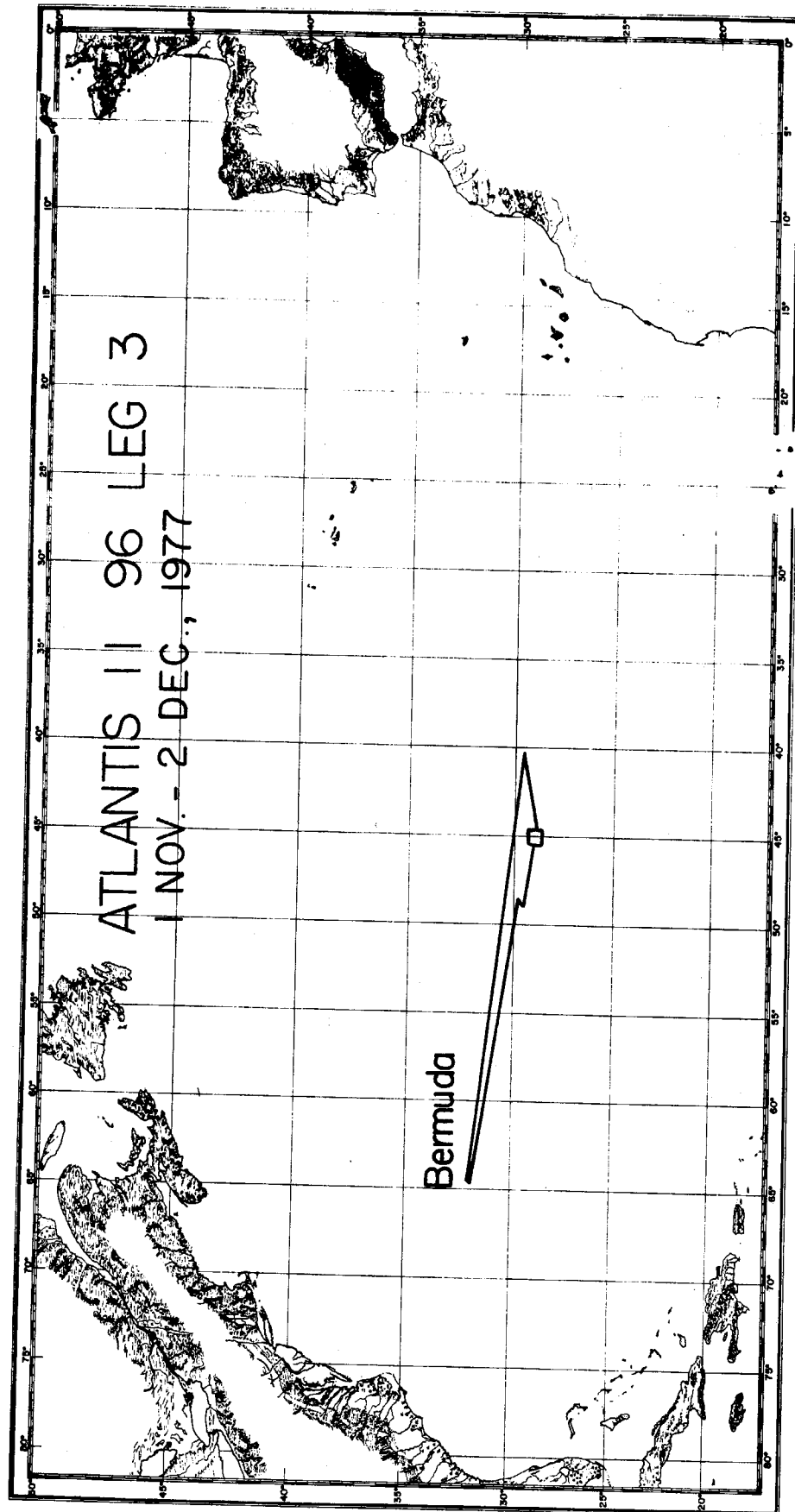


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CRUISE AII STATION 15 DREDGE 14 DESCRIBED BY BRODA/FARMER DATE Feb 79

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMOND	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
AI1	96	3	0001	0000	8	7711 7	23 48.3°N	46 34.5°W	0	77.36	0001	3918.	2969.	106K	19	0000		0	
AI1	96	3	0002	0000	8	7711 8	23 50.0°N	46 34.3°W	0	77.36	0002	4569.	3462.	003K	19	0000	G		
AI1	96	3	0003	0000	8	7711 8	23 46.5°N	46 34.5°W	0	77.36	0003	3022.	2782.	011K	19	0000	C		
AI1	95	3	0004	0000	8	7711 8	23 51.1°N	46 23.3°W	0	77.36	0004	5095.	3326.	063K	19	0000			
AI1	96	3	0006	0000	8	7711 9	23 52.9°N	46 15.8°W	0	77.36	0006	5505.	4798.	104K	19	0000			
AI1	96	3	0007	0000	8	7711 9	23 55.1°N	46 14.5°W	0	77.36	0007	4259.	3573.	046K	19	0000			
AI1	96	3	0008	0000	8	7711 9	24 .7°N	46 11.2°W	0	77.46	0008	2860.	2212.	173K	19	0000			
AI1	96	3	0009	0000	8	771116	23 36.5°N	44 28.7°W	0	77.34	0009	3982.	2737.	500G	19	0000			
AI1	96	3	0010	0000	8	771117	23 38.3°N	44 29.2°W	0	77.34	0010	2578.	2287.	029K	19	0000			
AI1	96	3	0012	0000	8	771117	23 31.1°N	43 54.4°W	0	77.33	0012	4039.	3326.	088K	19	0000			
AI1	96	3	0013	0000	8	771118	23 36.0°N	44 57.9°W	0	77.34	0013	6180.	4049.	096K	19	0000			
AI1	96	3	0014	0000	8	771118	23 36.2°N	45 1.6°W	0	77.35	0014	3611.	2700.	134K	19	0000			
AI1	96	3	0015	0000	8	771118	23 32.7°N	45 5.4°W	0	77.35	0015	2044.	1800.	031K	19	0000			
AI1	96	3	0016	0000	8	771124	23 47.5°N	45 49.9°W	0	77.35	0016	4450.	3762.	079K	19	0000	C		
AI1	96	3	0017	0000	8	771124	23 43.8°N	45 58.7°W	0	77.35	0017	3800.	3478.	009K	19	0000			
AI1	96	3	0018	0000	8	771124	23 31.5°N	44 49.1°W	0	77.34	0018	3686.	3573.	005K	19	0000			



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE ALL 96 STATION 1 DREDGE 1 DESCRIBED BY G. Thompson DATE Nov 77

Sample #	Lithology	Wt. kg	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	gabbro	6	M-C					mm 1-2		Some alteration and recrystallization	
2	"	5	C					.5-		some weathering & slight alteration (chlorite?)	
3	Peridotite	14		heavily serpentized				x		Small remnants of original rock	
4	gabbro	9		Ol-Px-plag						weathered - slight serpentinization	
5	gabbro	7								partially serpentized	
6	"	4								badly weathered & serpentized	
7	gabbro	5								"	
8	gabbro	2		numerous small pieces (1-4")						serpentized	w/ small altered ooze
9	calc ooze	10		large boulder consolidated ooze						Fe/Mn staining & worm burrows	
10,11	"	3		small cobble consolidated ooze						Fe/Mn stain	
12	gabbro	3								badly weathered & serpentized	
13	gabbro	4		good serp. vein						"	"
14	"	4						10-20		serpentized	
15	Serpentinite	1		complete replacement of gabbro						example of serpentization	
16	gabbro	1		partially serpentized						badly weathered	
17	gabbro	1		"							
18,19	gabbro(?)	8		small cobbles						serpentized	

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE AI1 96 STATION 1 DREDGE 1 DESCRIBED BY G. Thompson DATE Nov 77

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WHOI	ROCK	SAMPLE	DESCRIPTION
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AII 96  
 STATION 2  
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 DESCRIBED BY G. Thompson  
 DATE Nov, 1977

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CRUISE	STATION	DREDGE	DESCRIBED BY	DATE
AII 96	3		G. Thompson	Nov. 1977

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE AII 96 STATION 6 DREDGE 6 DESCRIBED BY G. Thompson DATE Nov 1977

Sample #	Lithology	Wt. kg	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	Basalt	9			Abundant plag		Slight		L	glass margin -	slight palagonite
2,3	"	4		Several small	pieces					Palagonized margin-	very little FeMn
4	Sediment	.2		3 pieces consolidated	ooze					Embedded palagonite	fragments
5-17	Basalt	7		Pillow fragments						Palag. margins, slight	FeMn coating
18-20	"	1.5								Palag. glassy	margin; ropey lava
21	"	.2								"	" ; blocky lava
22-35	"	7		Pillow fragments						No margin; small	worm tubes on #33
36-42	Pillow basalt	20			Plag					Partly palag. glassy	margin; weathering governed by cracks
43	"	.2								No margin	
44	Basalt	1			Plag, rich interior					Good glassy margin; toothpaste	extrusion; gas cavity @ center
45	Pillow basalt	2		Several small	fragments						
46	"	2								Glass margin	
47,48	"	2								No margin	
49,50	"	1								Glass margin; flow area	
52,53,58,60,61	"	4								Palag glass margin	
51,54-57,59	"	6								No margin	
62	Basalt	8		Coarse grained						Palag glass margin	

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE AIJ 96 STATION 6 DREDGE 6 DESCRIBED BY G. THOMPSON DATE Nov 1977

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		AII 96	STATION	8	DREDGE	8	DESCRIBED BY		G. THOMPSON	DATE	Nov 77
Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	basalt	kg 6			plag rich					fine grained	
2	"	12								" "	good glass margin
3	"	12			large plag					palag margin	
4	"	6		numerous small	angular frags					FeMn stained	
5	"	1.5		very small	frags as #4						
6	breccia	.5		consolidated	ooze with palag					fragments	
7-20	basalt	12		small angular	basalt frags					1 mm FeMn coating	
21	"	3			plag					good glass margin	
22-24	pillow basalt	1.5								good glass margin, some palag. FeMn staining	
25-28	"	2								poorly developed glass	
29	basalt	3		fine grained						slight glass, angular	
30	pillow basalt	10			abundant plag					palag margin	
31	basalt	4								slight FeMn stain	
32	"	2								good margin	white ooze
34	"	3		angular frag						FeMn stain good slab of fine/	
35	"	3				x				palag margin	
36-40	"	10		angular frags	plag					palag margin	

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE AII 96 STATION 8 DREDGE 8 DESCRIBED BY G. Thompson DATE Nov 77

Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
41	basalt	3								palag margin	
42,47,48	"	4		fine grained	few plag					light FeMn coat	
43-46	"	2		"	"					" "	"
49	pillow basalt	5								palag margin	
50-52	basalt	7			good plag					FeMn coated	
53	basalt				"					" "	
54	"	5			few lg, plag tr Oliv				L		
55	basalt	3		slightly coarser grained							
56-58	"	4		angular frags						no FeMn; slight	greasy feel to surface
59-60	"	20		numerous angular frags							
61	"	5		" small frags						palag margin	
62	"	.5		small pebbles							
63	sediment	.5		small pieces	lithified carbonate						
64	basalt	6		numerous angular frags						palag margin	
65	basalt	1		angular frag							
66	basalt	1.5			few plag					palag margin	
67	basalt	2			plag					slightly coarser grained	

DATE Nov. 1977

G. THOMPSON

DESCRIBED BY:

**DREDGE** 8

STATION 8

AII 96

## CRUISE

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CRUISE AII 96 STATION 9 DREDGE 9 DESCRIBED BY G. Thompson DATE Nov 1977

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE AII 96 STATION 12 DREDGE 12 DESCRIBED BY G. THOMPSON DATE Nov 77

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	serpentine	3		serpentinized	gabbro(?) breccia					calcite/sed.	infilling
2	altered gabbro	1		few px left				x		calcite infilling	
3	gabbro	1.5								serpentinized, weathered	
4	altered gabbro	2								large calcite/ serp vein	
5	"	1		px? rich, weathered oliv						banded 'flow' texture - original oliv due to alteration	
6	" breccia	1.5		sed. & calcite infilling						serp/chl'ized finer grained gabbro	
7	cobble	1.5		lt. colored fels rich gabbroic rock						v. little Fe-Mn	
8	basalt	3						1mm	VH	V. friable; chl-smectite? sed & breccia vein infilling breccia on surface	
9	serpentine	4		little px left				10	VH	like #8	
10	basalt/gabbro	2		rounded boulder					X	Serp not pervasive	
11	gabbro	2							VH	heavily weathered	
12-14	gabbro/basalt	12		as #10					x	less altered than #12-14	
15	gabbro	1.5							H	weathered & serp'ized	
16	"	1.5								less altered	
17	"	2		Px rich							
18	basalt/gabbro	9							H	altered, thick FeMn crust	
19-20	gabbro	4							H	serp'ized	

CRUISE AI 96 STATION 12 DREDGE 12 DESCRIBED BY G. Thompson DATE Nov 77

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		AII 96		STATION 13		DREDGE 13		DESCRIBED BY G. THOMPSON		DATE Nov 77	
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	gabbro	kg 6		coarse grained mostly feldspathic				mm		some layering and grain size variations obvious	
2	"	4		finer grained feldspathic						coarser grained layer	
3	altered gabbro	1.5		feldspathic						qtz-amphibole(?)metam. vein	
4	gabbro	4		fine-grained feldspathic	feldspathic layer	over	coarser			px-oliv layer;px-oliv weathered	
5	"	3	C							chloritization well advanced	
6	"	2	M	feldspathic						slight chl'tion	
7	metagabbro	2	C							chl (serp) well advanced	
8	gabbro	3		feldspathic						slight chl.	
9	metagabbro	4								advanced stage vein alteration (qtz-albite?)	
10	gabbro	1.5		feldspathic - finer						slight layering	
11,13,15,17	gabbro	6								chloritized	
12,14	gabbro	2		feldspathic						#12 outer weathered rim	
18	diabase/basalt	1		finer grained						chl'ized	
19	metabasalt	.5		fine grained feldspar	(albitized?)					"	
20,21	metabasalt/diabase	2		medium grained						"	
22	metabasalt	2		fine grained						"	
23	"	2		v. fine grained						"	



CRUISE ALI 96 STATION 13 DREDGE 13 DESCRIBED BY G. THOMPSON DATE NOV. 77

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		AII - 96		STATION		14		DREDGE		14		DESCRIBED BY		G. Thompson		DATE		Nov. 77	
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks								
22	Basalt	1.5							L	chill margin-in	intrusive flow or dike?								
23	"	1			few pheno's	tr				glass margin									
24	"	1.5				tr					fragments								
25, 27	Gabbro	1.5								chl'ized									
26	Basalt	.2								outer altered	breccia & margin chl'ized								
28	Basalt/diabase	1.5		med - grained						altered									
29, 30	Basalt	3							L										
31	"	2			some pheno's	X													
32, 35	"	2		chl'ized, large albite? crystals															
33	Gabbro	1	F							altered									
34	Basalt	1		numerous pieces						highly chl'ized and altered									
37	Basalt	2		several fragments						palag. glossy margins									
38, 39	Basalt/diabase	30		numerous fragments						no obvious metamorphism									
40, 41	" "	10		numerous altered slicken-sided fragments															
42	Gabbro	1		4 small pieces															
43	Basalt/Diabase	1.5						X											

CRUISE AII - 96 STATION 14 DREDGE 14 DESCRIBED BY G. Thompson DATE Nov. 77

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE AII 96 STATION 16 DREDGE 16 DESCRIBED BY G. Thompson DATE Nov 1977

Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
1	Basalt	kg 5		Chl'ized							
2	Basalt	4		"						Some vein infilling	
3	Metabasalt	9		" ; esp. cooling margins						" " "	
4	"	9		Chl'ized							
5,6	"	8		" ; many small pieces						#6 FeMn stained	
7	Metabasalt/ diabase	9		"							
8	Basalt	5		" ; numerous angular pieces							
9	Basalt	.2		2 small FeMn coated frags							
10	Basalt	.2		Chl'ized; qtz-epidote on surface							Unsplit
11	Metabasalt	.5		" ; coarse grained							Unsplit
12-15	Metabasalt	4		"						#14 good qtz rich vein, unsplit	
16	"	1		epidote rich? veining							Unsplit
17	Gabbro	4		Broken badly weathered pieces						Some chl'ized, unsplit	
18	"	2		px rich						As #17	
19	Metabasalt	.2		lighter colored surface							Unsplit
20	Basalt	.2								Palag rich, weathered, FeMn stain	
21-22	Metabasalt	1								lg. qtz. (calcite?) crystals on surface	



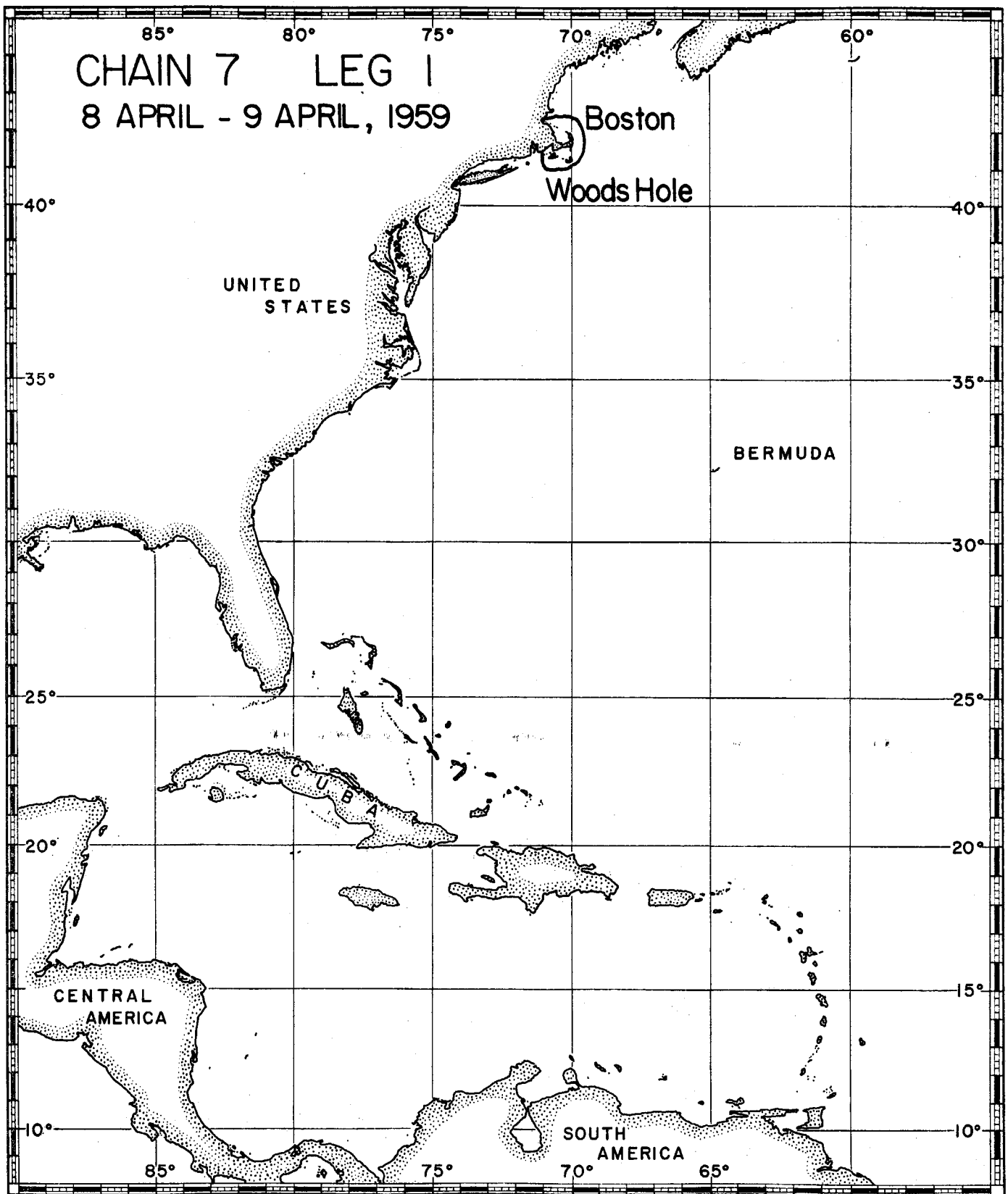


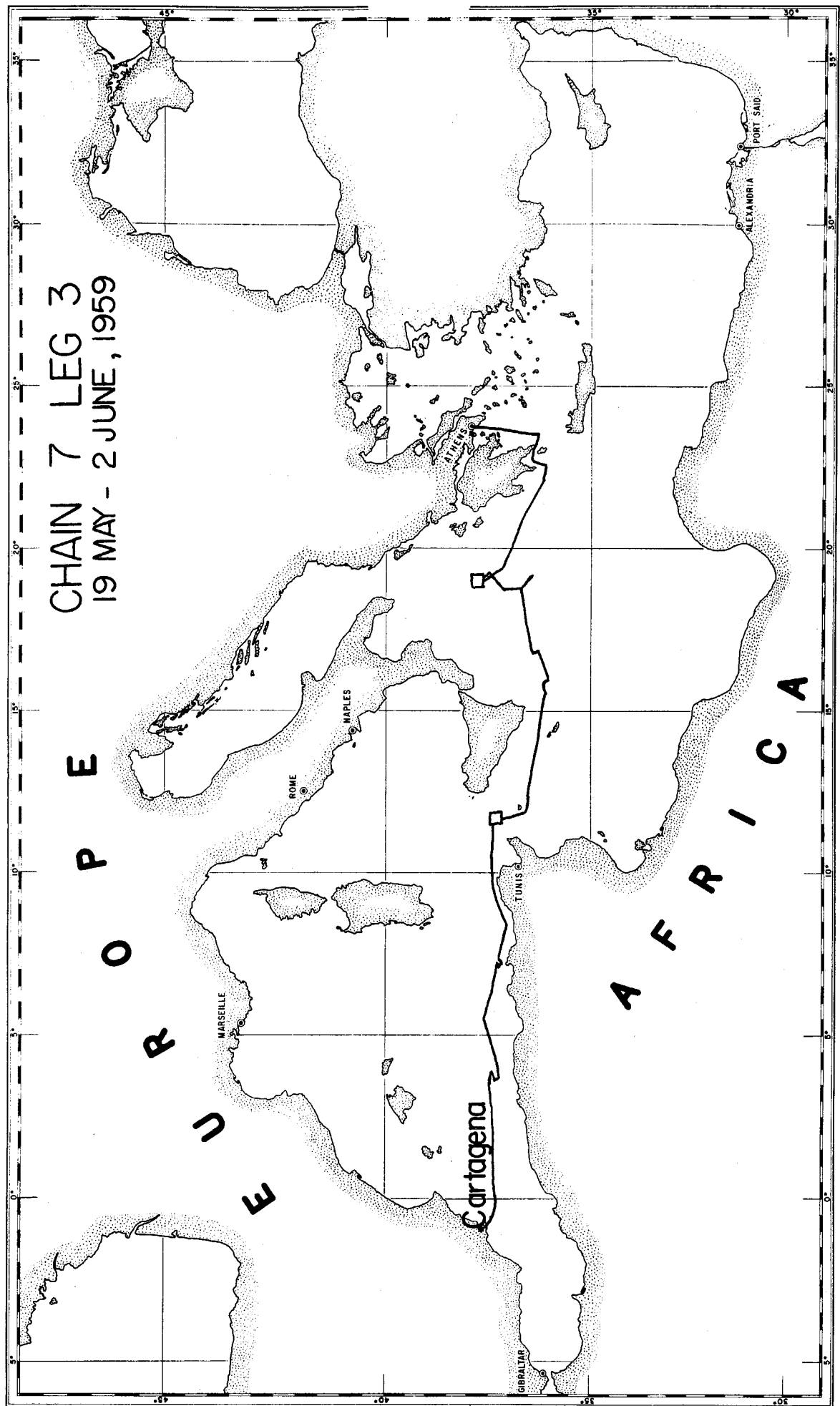
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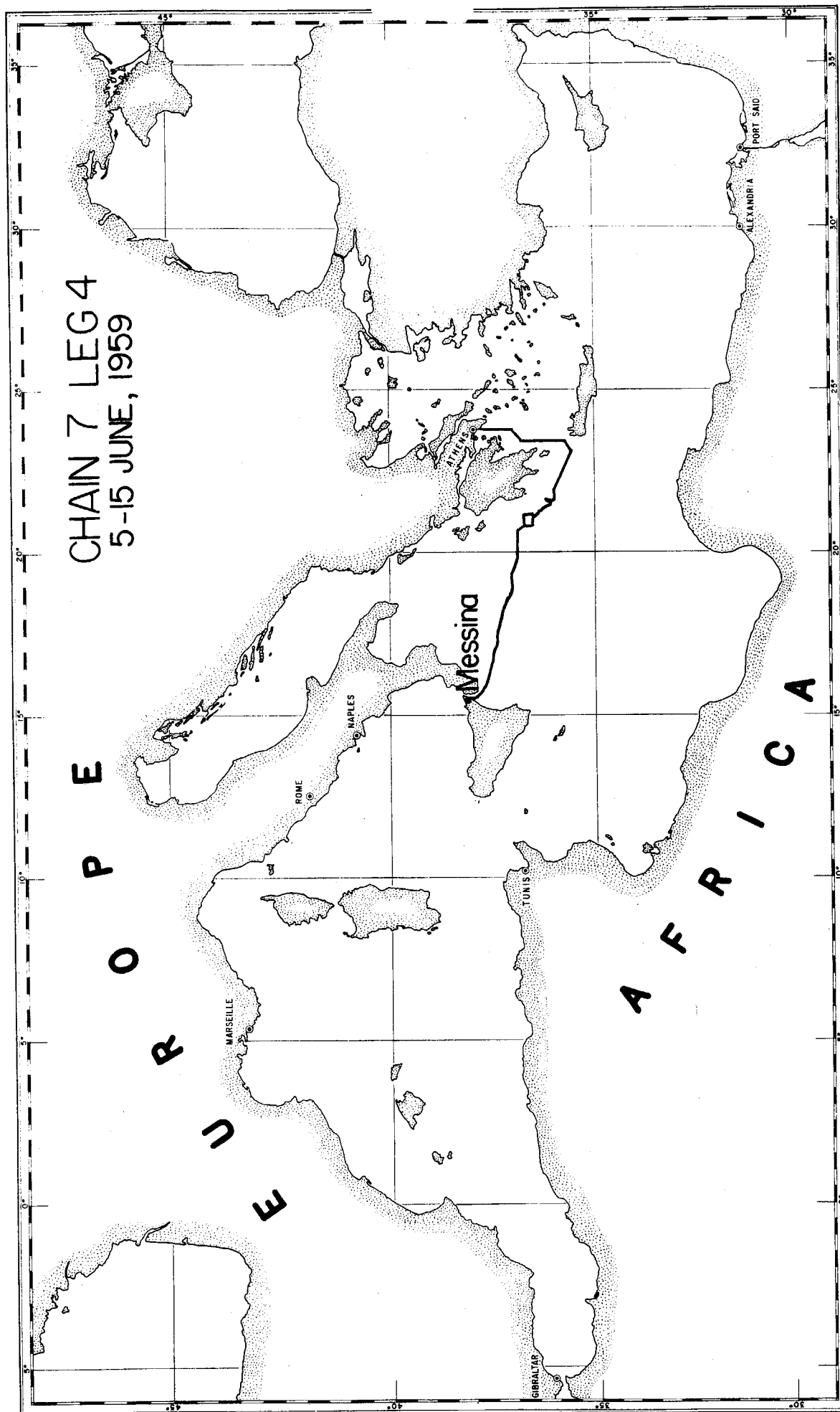
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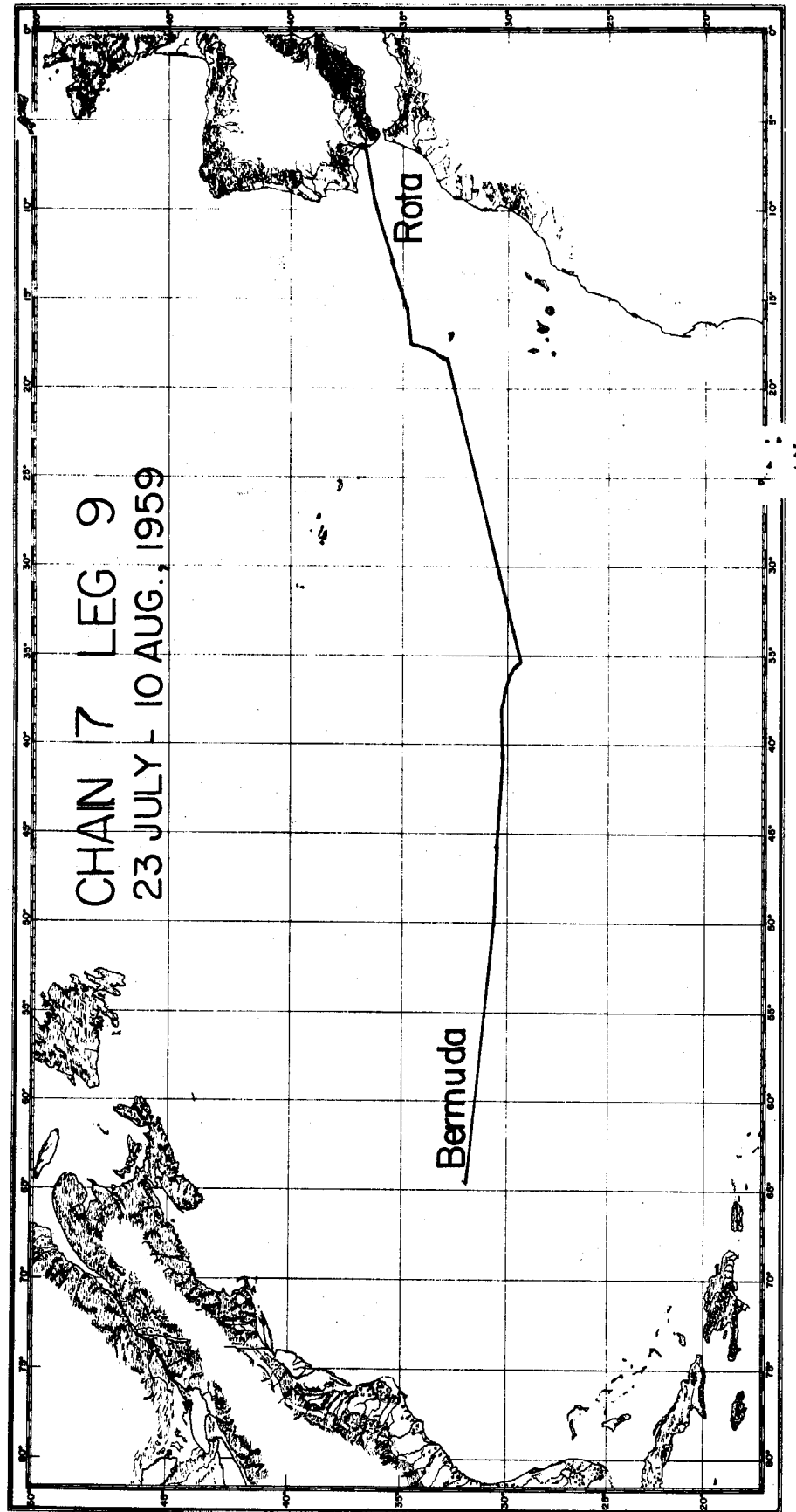
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STATION DATA RETRIEVAL  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR/MO/DA	LATITUDE	LONGITUDE	FIX TYPE	DEN SQUARE	MARS- DREDGE NUMBER	CORE CR DEPTH	CR DEPTH	DREDGE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK CR	REMARKS
CHN	7	1	0002	0000	7	59 510	36 13.0°N	12 15.0°W	4	110.62	0002	114.	114.	012K	12	0000	0
CHN	7	1	0003	0000	7	59 510	36 13.0°N	12 15.0°W	4	110.62	0003	85.	85.	227G	12	0000	0
CHN	7	1	0004	0000	7	59 510	36 12.0°N	12 15.0°W	4	110.62	0004	95.	123.	6.4K	12	0000	0
CHN	7	3	0005	0000	7	59 524	37 32.0°N	11 10.0°E	4	143.71	0005	358.	358.	004K	21	0000	0
CHN	7	3	0005	0000	7	59 524	37 32.0°N	11 10.0°E	4	143.71	0006	453.	453.	005K	21	0000	0
CHN	7	3	0007	0000	7	59 525	37 32.0°N	11 10.0°E	4	143.71	0007	453.	453.	9.3K	21	0000	0
CHN	7	3	0009	0000	7	59 526	36 11.0°N	15 29.5°E	4	143.65	0009	1136.	1136.	454G	21	0000	0
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CHN	7	4	0013	0000	7	59 6 8	37 39.0°N	16 37.5°E	4	143.76	0013	2296.	2296.	680G	21	0000	0
CHN	7	9	0001	0000	8	59 730	30 2.0°N	28 34.0°W	4	111.08	0001	640.	612.	020K	12	0000	0
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CHN	7	9	0022	0000	7	59 725	33 44.0°N	14 20.0°W	4	110.34	0022	415.	274.	3.2K	12	0000	0
CHN	7	9	0023	0000	7	59 725	33 44.0°N	14 20.0°W	4	110.34	0023	772.	500.	567G	12	0000	0
CHN	7	9	0024	0000	7	59 731	30 .0°N	28 25.0°W	4	111.08	0024	295.	295.	340G	12	0000	0
CHN	7	9	0025	0000	7	59 731	30 .0°N	28 23.0°W	4	111.08	0025	295.	295.	3.2K	12	0000	0
CHN	7	9	0026	0000	7	59 731	30 .0°N	28 33.0°W	4	111.08	0026	1598.	1261.	113G	12	0000	0
CHN	7	9	0027	0000	7	59 8 1	30 .0°N	28 30.0°W	4	111.08	0027	288.	288.	4.6K	12	0000	0
CHN	7	9	0028	0000	7	59 8 5	31 18.0°N	44 31.0°W	4	113.14	0028	3614.	3642.	3.7K	15	0000	0

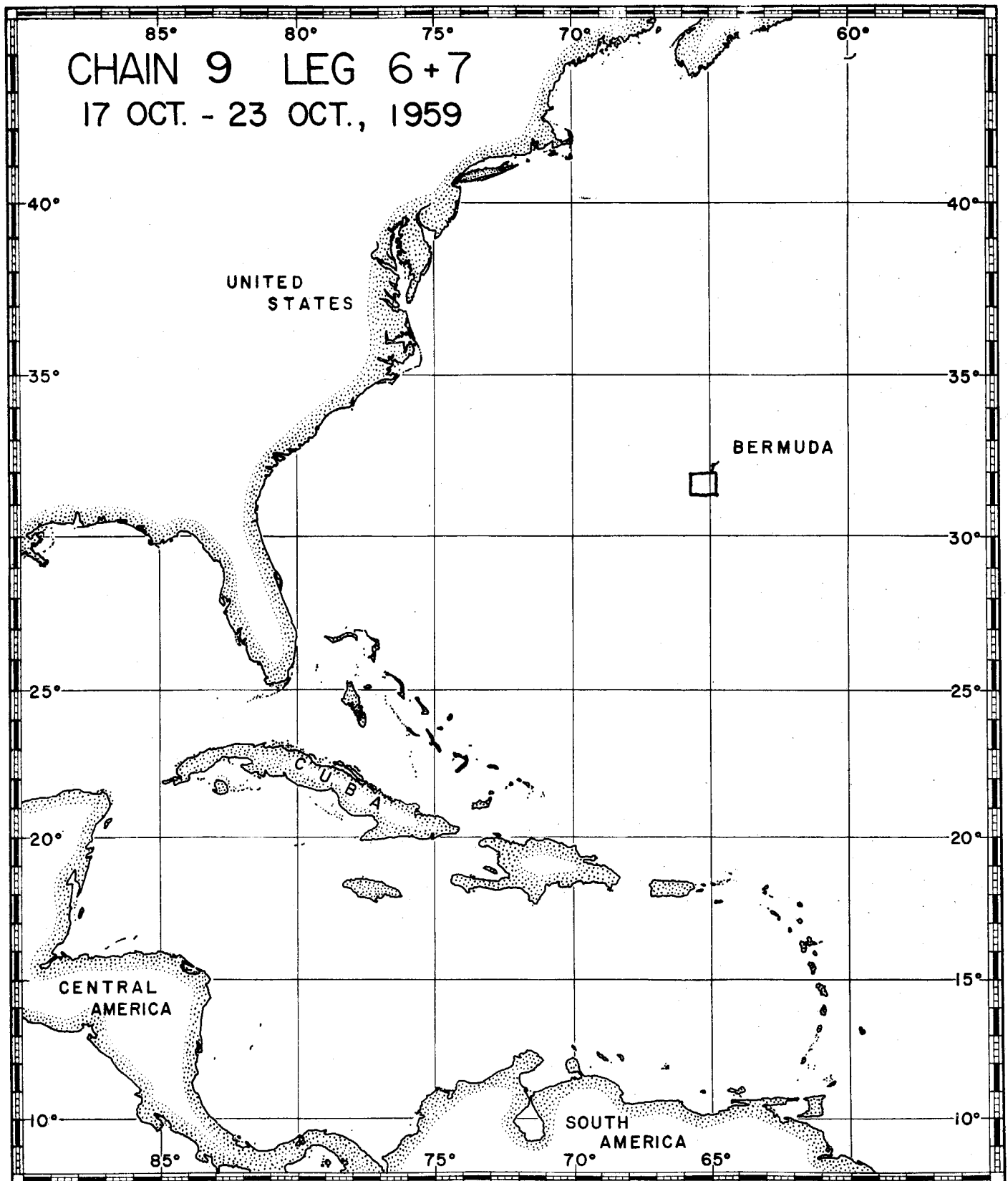






## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		CHAIN	7	STATION	see below	DREDGE	DESCRIBED BY				BRODA/FARMER	DATE
Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks	
STATION 21	DREDGE PD21											
	Calc. sand	85g		with coral and shell hash								
STATION 22	DREDGE PD22											
	Bioclastic sand	3.2K		and shell hash								
STATION 23	DREDGE PD23											
		570g		limestone and erratic volcanic gravel								
STATION 24	DREDGE PD24											
	Coral hash & shell fragments											
STATION 25	DREDGE PD25											
	Calc. sand	3.0K		mostly forams								
	Coral hash	225g										
STATION 26	DREDGE PD26											
	Granitic glacial erratic	115g										
STATION 27	DREDGE PD27											
	Algal limestone	1.5K										
	Calc. sand	2.7K										
	Calc. sand	450g		foram-pteropod ooze								
STATION 28	DREDGE PD28											
	Calc. sand	115g								Mn coated		
	Foram sand	450g										
	Calc. ooze	3.3K		indurated								



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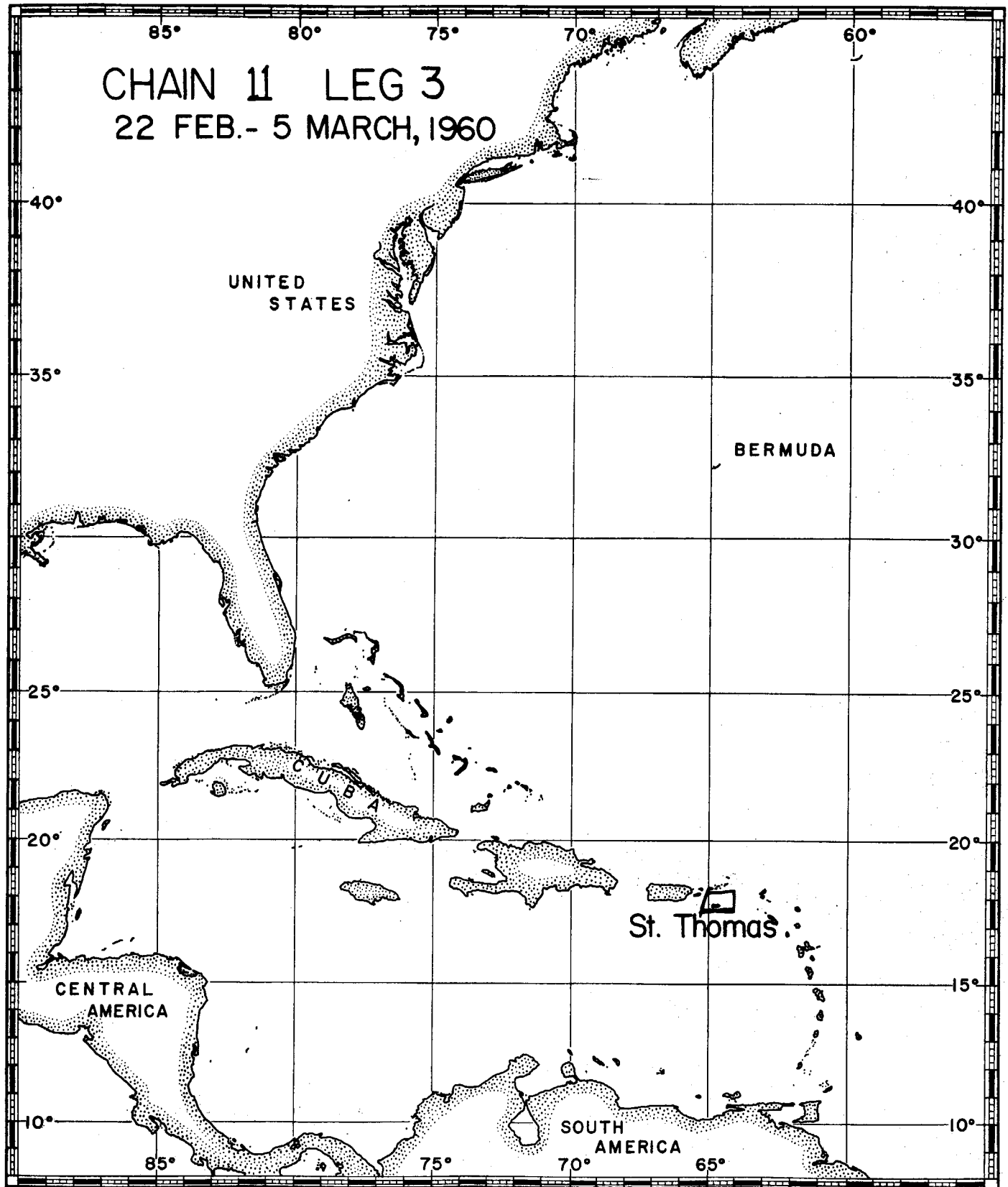
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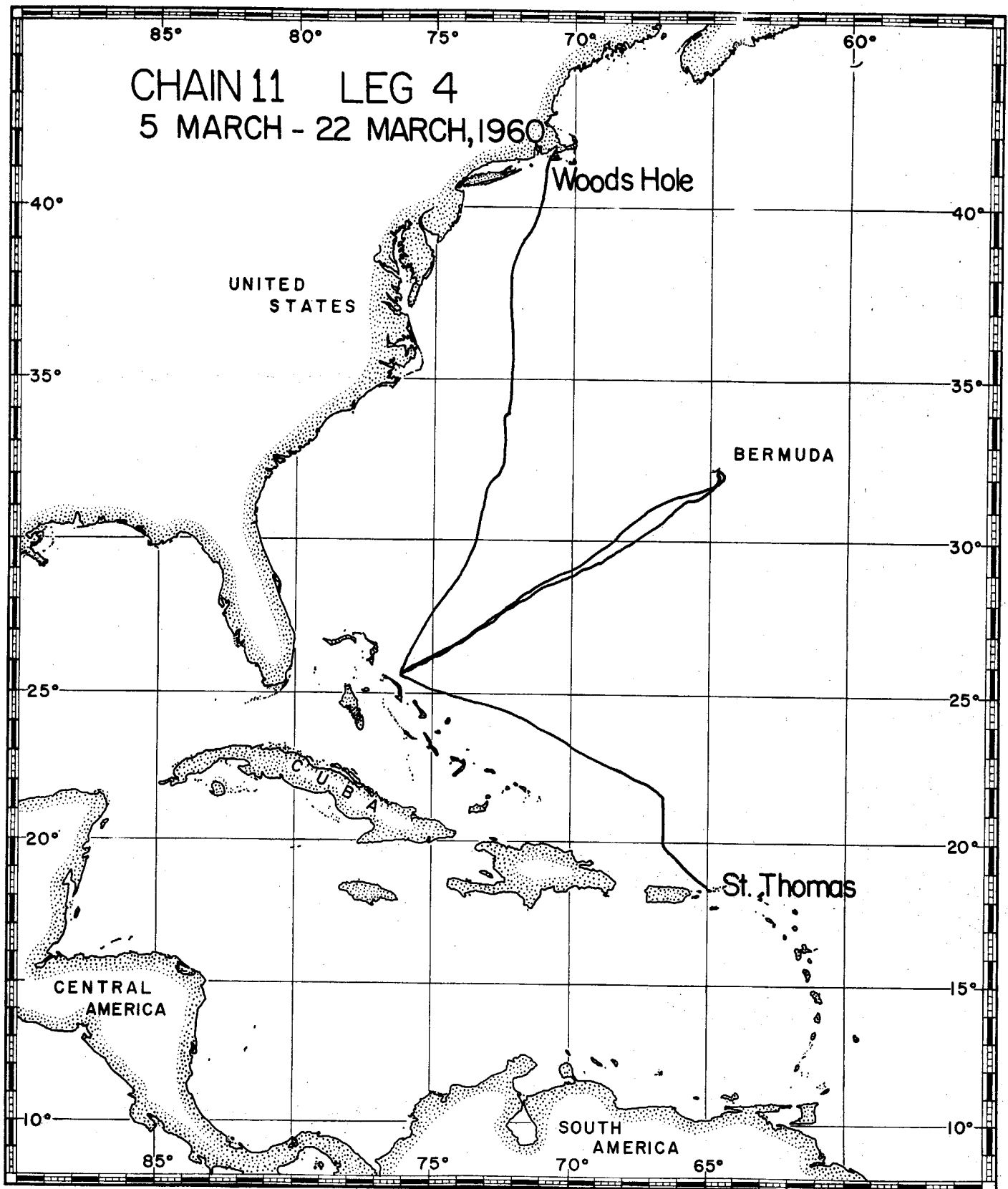
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SHIP	CRUISE	LEG	STATION	DE- VICE	SAMPLE NUMBER	DATE YR MON DA	LATITUDE	LONGITUDE	FIX	MARS-		CORE OR DREDGE	CORE OR DREDGE	DEPTH	CORE LENGTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROF.	ROCK OR SED.	VITA TYPE	CCODE	REMARKS
										DEN	SQUARE										
CHN	9	6	0030	7	591018	31 53.9°N	65 12.3°W	5	115.15	0002	1972.	1372.	028G	5	0000	0					
CHN	9	6	0031	7	591018	31 54.7°N	65 12.9°W	5	115.15	0003	1128.	1035.	003K	5	0000	0					
CHN	9	7	0032	7	591021	31 54.3°N	65 12.0°W	5	115.15	0005	1207.	1207.	340G	5	0000	0					
CHN	9	7	0033	7	591021	31 54.2°N	65 13.1°W	5	115.15	0006	1636.	1542.	227G	5	0000	0					
CHN	9	7	0034	7	591021	31 54.2°N	65 12.8°W	5	115.15	0007	1542.	1692.	002K	5	0000	0					
CHN	9	7	0035	7	591021	31 55.0°N	65 11.8°W	5	115.15	0008	885.	940.	002G	5	0000	0					
CHN	9	7	0036	7	591021	31 54.9°N	65 12.7°W	5	115.15	0009	1128.	997.	113G	5	0000	0					







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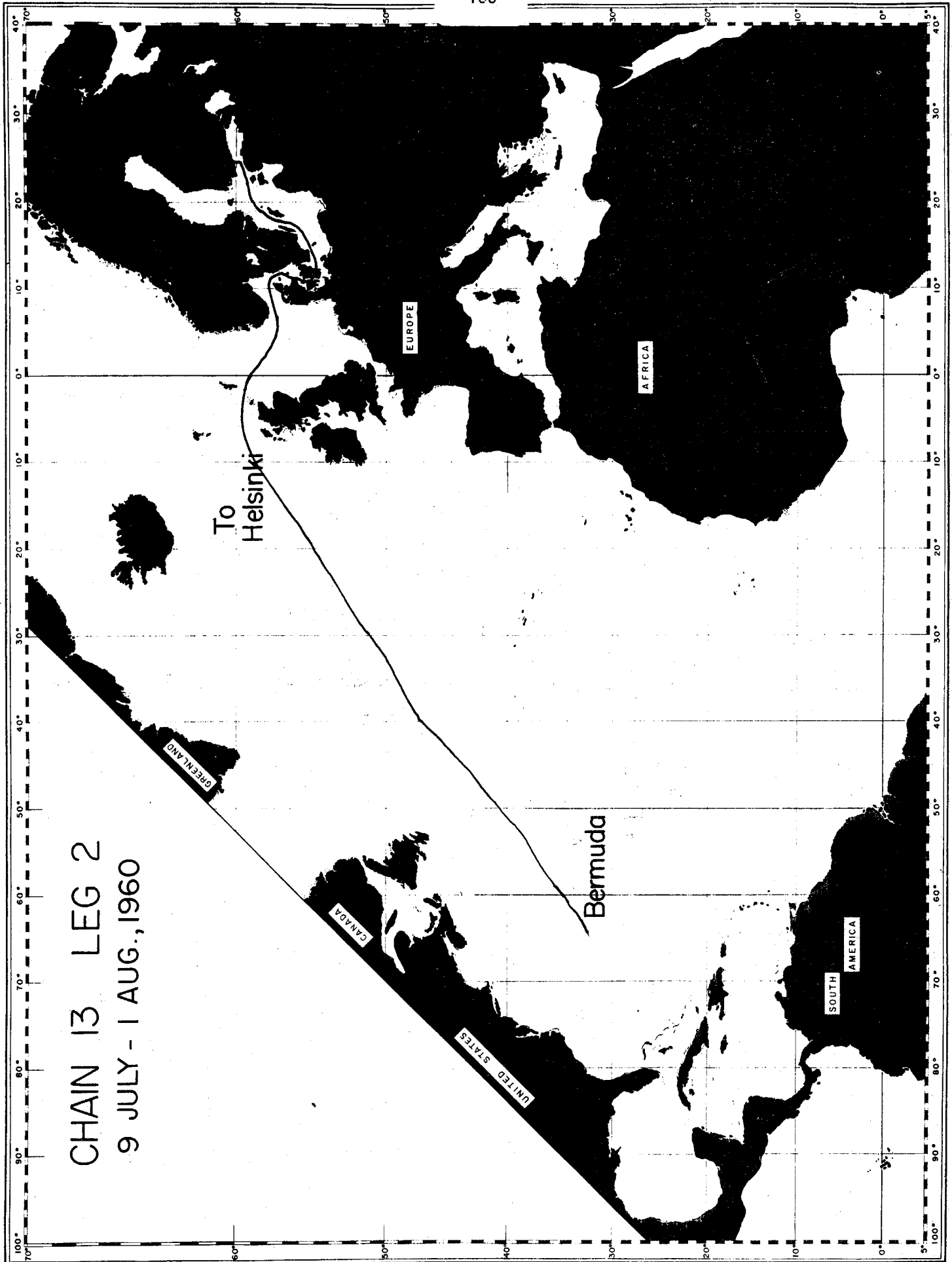
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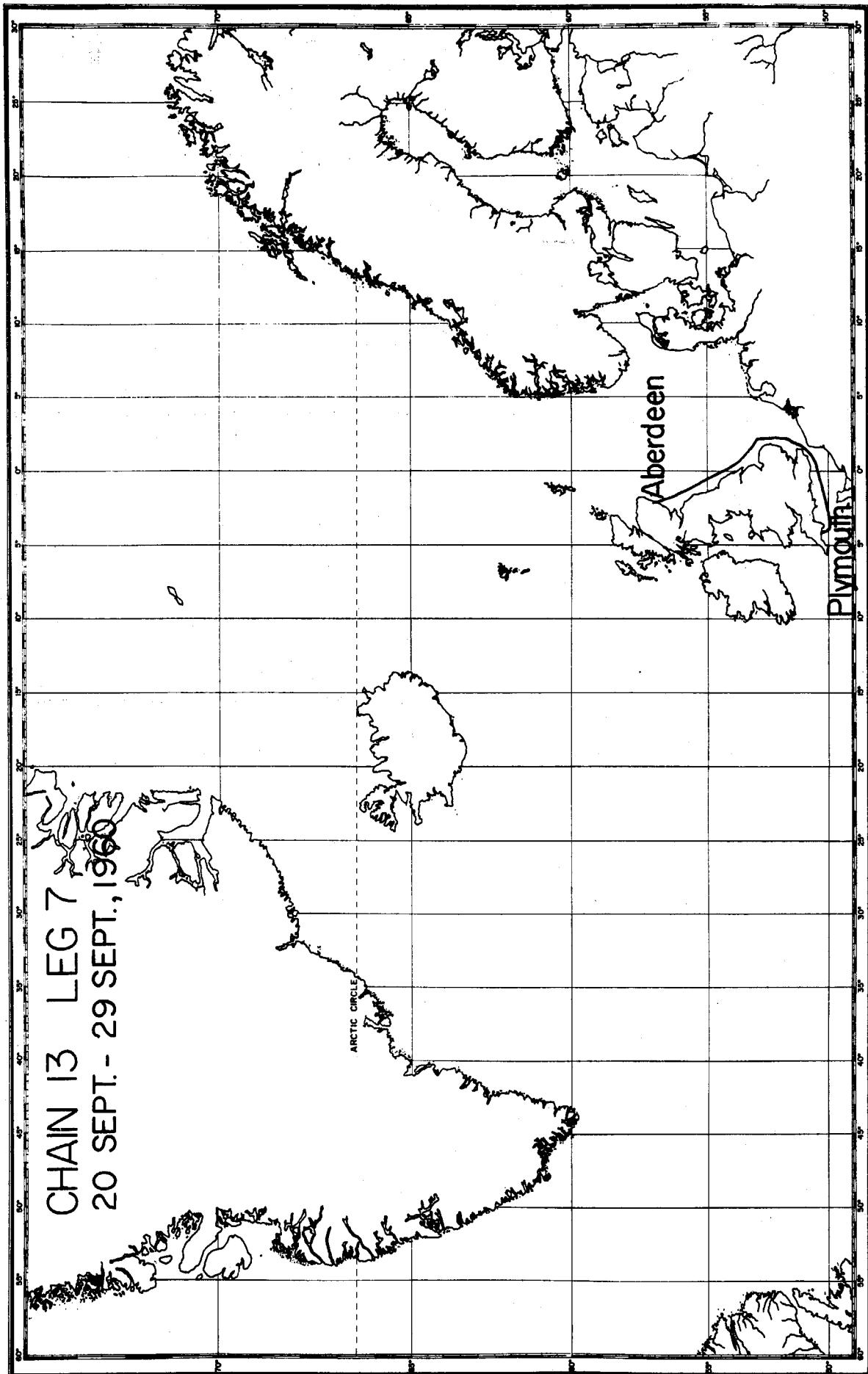
SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	LATITUDE	LONGITUDE	FIX	WARS- DEN	CORE OF DREDGE	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	ROCK OR PHYSIO- GRAPHIC PROV.	VITA TYPE	CODE	REMARKS
CHN	11	3	0038	0000	7	60 222	17 45.0'N	64 55.0'W	4	43.74	0038	755.	942.	2.1K	3	0000	0
CHN	11	4	0039	0000	7	60 37 20	66 36.0'N	66 36.0'W	4	79.06	0039	5302.	5302.	700G	17	0000	0



CRUISE CHAIN 11 STATION see below DREDGE DESCRIBED BY BRODA/FARMER DATE     

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\*\*\*\*\*STATION DATA RETRIEVAL  
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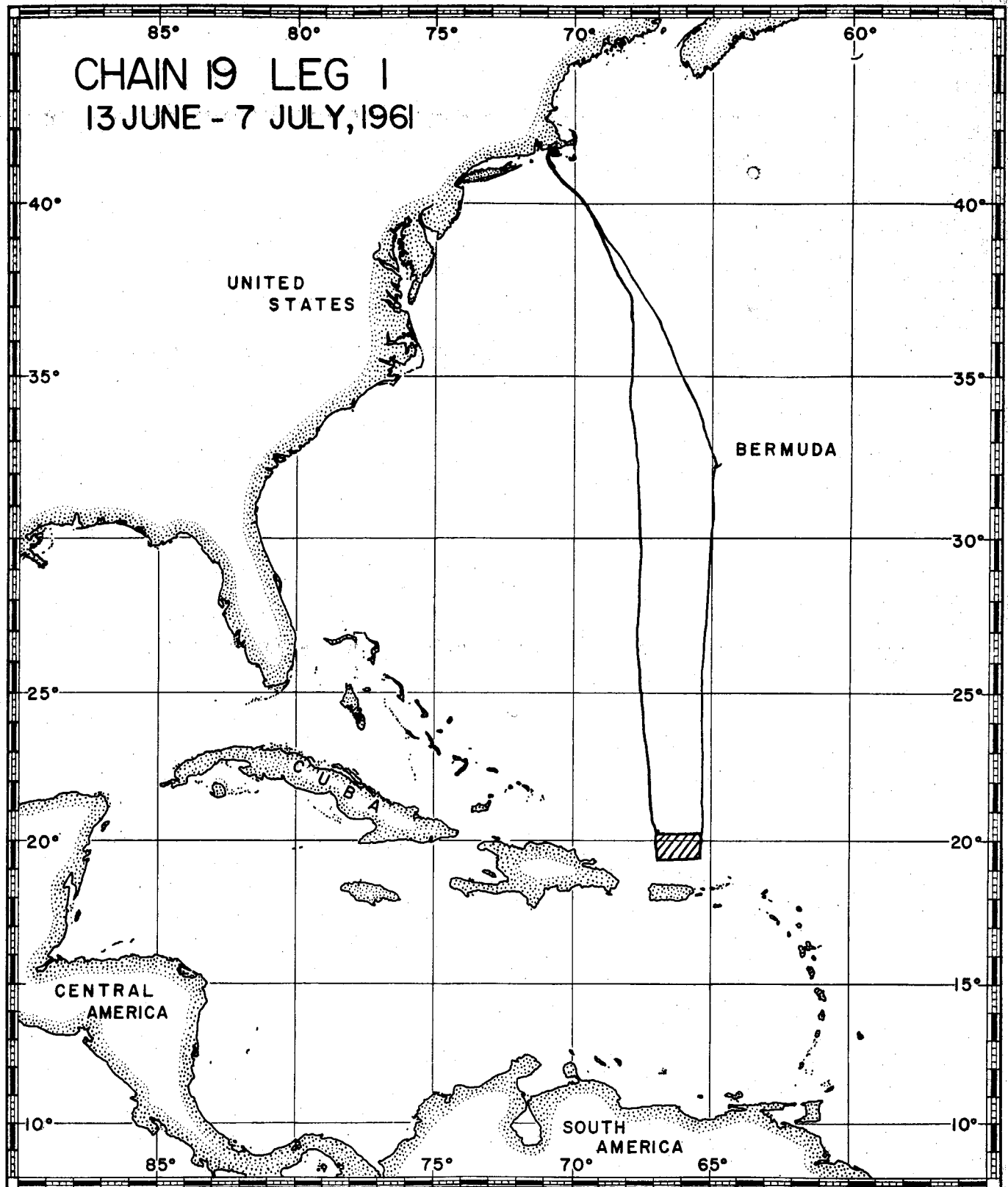
SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX	DEN	MARS- SQUARE	CORE OP DREDGE	DEPTH	END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSID- GRAPHIC PROV.	ROCK OR SED.	VITA	REMARKS
CHN	13	2	0007	0000	8	60 723	51 28.0°N	29 45.0°W	1	183.19	0007	1301.	1301.	040K	14	0000	0		
CHN	13	2	0040	0000	7	60 721	50 44.0°N	29 52.0°W	5	183.09	0040	3897.	3556.	5.7K	16	0000	0		
CHN	13	2	0041	0000	7	60 725	57 35.2°N	13 32.0°W	5	182.73	0041	147.	147.	012K	13	0000	0		
CHN	13	2	0042	0000	7	60 725	57 35.2°N	13 32.0°W	1	182.73	0042	162.	162.	011K	13	0000	0		
CHN	13	7	0008	0000	8	60 925	48 46.0°N	10 2.0°W	5	146.80	0008	334.	334.	113G	4	0000	0		
CHN	13	7	0009	0000	8	60 925	48 47.0°N	10 1.5°W	5	146.80	0009	814.	841.	029K	4	0000	0		

# WHOI ROCK SAMPLE DESCRIPTION

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CRUISE CHAIN 13 STATION see below DREDGE DESCRIBED BY DATE

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
STATION 7	Gneiss	1.8K	M	hornblende plag.		-	-	-	F		a few worm tubes
	Coral	2.7K		Mn coated branching coral							
	Gabbro	21K	C	plag., pyrox, olivine	-	-	-	-	L-M		4 large pieces & numerous small ones
	Erratics	5K		schists, granites & quartzites							
STATION 8	Calc. sand	100g		fine to coarse calc. sand							
STATION 9	Limestone	27K		heavily burrowed algal limestone							
	Calc. lutite	1K		calcareous silty lutite							
	Chalk	680g		indurated							
STATION 40	Calc. ooze	4.3K		includes scattered small fragments of angular basalt glass.							
	Glassy basalt	1.3K		small angular fragments of fresh glassy basalt							
	Glacial erratic	100g		also present are a few subrounded granitic erratic pebbles							
STATION 41	Calc. ooze with basalt pebbles	4.5K		coarse calc. sand with rounded to subangular pebbles of basalt							
				basalts are medium to heavily weathered, with small plag. phenocrysts common							
	Basalt cobbles	7.7K		-	few to common	-	-	-	L-M		labelled Stations 41&42
				few granitic (erratic) cobbles also							
STATION 42	Calc. ooze with basalt pebbles	3.4K		coarse calc. sand with rounded to subangular pebbles of basalt							
				basalts are medium to heavily weathered with small plag. phenocrysts common							
	basalt cobbles	7.7K		See Station 41	above						



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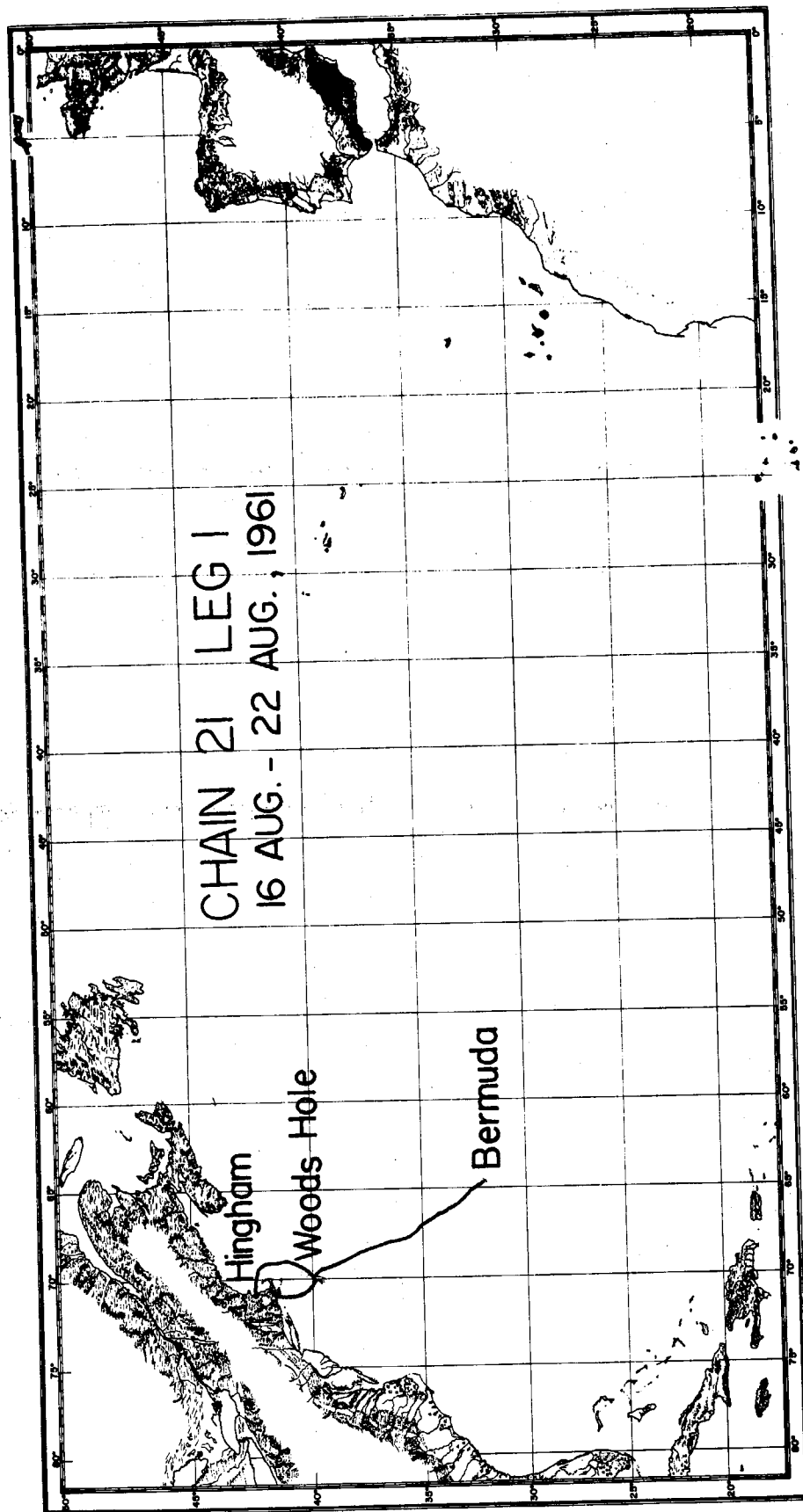
SHIP	CRUISE	LEG	STATION	DE- VICE	DATE	LATITUDE	LONGITUDE	TYPE	FIX	MARS- DEN	CORE OR DREDGE	CORE LENGTH	DREDGE OR	ROCK OR	PHYSIO- GRAPHIC	SED. VITA	TYPE	CODE	REMARKS
CHN	19	1	0002	0000	8	61 628	19 58.4'N	66 25.2'W	5	43.96	0002	6987.	6594.	567G	17	0000	0		
CHN	19	1	0003	0000	8	61 628	19 58.4'N	66 25.7'W	5	43.96	0003	6968.	6544.	020K	17	0000	0		
CHN	19	1	0010	0000	8	61 630	20 0'N	66 32.5'W	5	43.06	0010	6563.	6436.	010K	17	0000	0		
CHN	19	1	0011	0000	8	61 7 1	20 7.9'N	66 28.3'W	5	43.06	0011	3115.	3176.	454G	17	0000	0		
CHV	19	1	0013	0000	8	61 7 2	20 10.0'N	66 19.0'W	5	43.06	0013	6264.	6178.	7.7K	17	0000	0		

\*\*COMMENTS\*\*

EDGERTON GRAPPLING DEVICE VOLUNTEERED THIS MATERIAL.







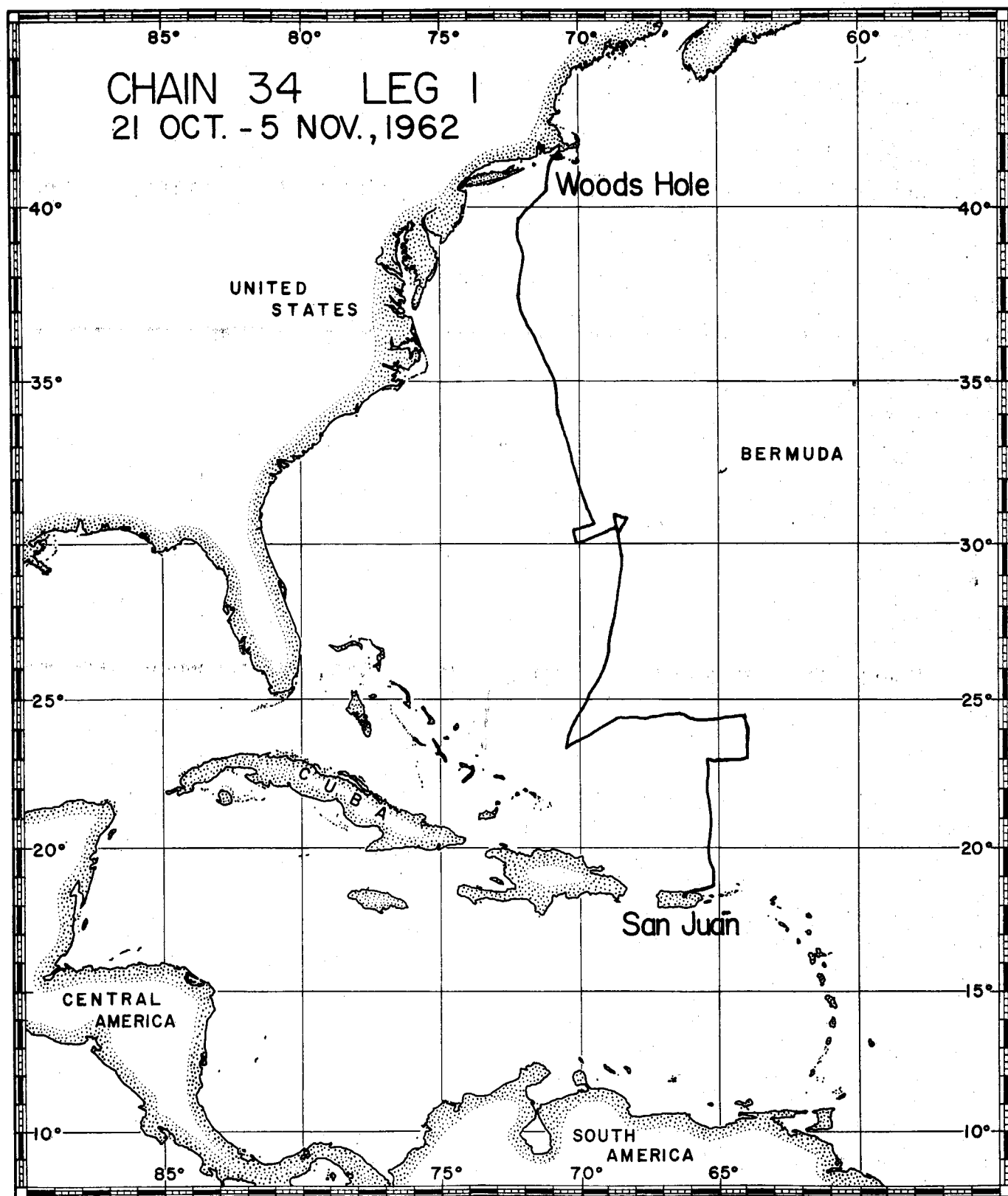
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DATE: 08:52 SEP 21, '91\*\*\*\*\*  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX	MARS- DEN	CORE OR DREDGE	SQUARE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	REMARKS
CHN	21	1	0002	0000	8	61 818	36 40.0°N	67 56.5°W	5	115.67	0002	3292.	3283.	7.6K	12	0000	0		
CHN	21	1	0003	0000	8	61 829	29 0°N	47 26.8°W	1	77.97	0003	3795.	4706.	454G	15	0000	0		
CHN	21	1	0004	0000	8	61 9 2	29 4.3°N	44 15.6°W	1	77.94	0004	3806.	3692.	907G	14	0000	0		
CHN	21	1	0006	0000	8	61 9 3	29 4.0°N	43 2.0°W	1	77.93	0006	2264.	2264.	3.4K	16	0000	0		
CHN	21	1	0007	0000	7	61 9 3	29 4.0°N	43 3.0°W	1	77.93	0007	2264.	2264.	6.9K	16	0000	0		
CHN	21	1	0008	0000	8	61 9 8	29 49.0°N	28 40.0°W	1	75.98	0008	462.	462.	454G	12	0000	0		
CHN	21	1	0010	0000	8	61 9 8	29 49.0°N	28 40.0°W	1	75.98	0010	349.	340.	113G	12	0000	0		
CHN	21	1	0011	0000	8	61 9 8	29 49.0°N	28 40.0°W	1	75.98	0011	321.	317.	6.8K	12	0000	0		
CHN	21	1	0013	0000	8	61 9 8	29 47.0°N	28 19.0°W	1	75.98	0013	589.	591.	3.6K	12	0000	0		
CHN	21	1	0014	0000	8	61 9 8	29 47.0°N	28 20.0°W	1	75.98	0014	393.	358.	003K	12	0000	0		
CHN	21	1	0015	0000	8	61 9 8	29 46.3°N	28 19.0°W	1	75.98	0015	871.	832.	3.3K	12	0000	0		
CHN	21	1	0020	0000	8	6112 9	28 54.5°N	43 18.3°W	5	77.83	0020	3692.	3701.	095K	14	0000	0		

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		CHAIN 21	STATION		see below	DREDGE	DESCRIBED BY		FARMER/BRODA	DATE	
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
STATION D-2	DREDGE No. 2										
	Mn nodules	7.3K									4 separate nodules
	Coral	35g									
STATION D-3	DREDGE No. 3										
	Lutite	450g									
STATION D-4	DREDGE No. 4										
	Lutite	900g									
STATION D-6	DREDGE No. 6										
	Lutite	1.1K									
	Basalt cobbles	2.3K	A		Tr Pg, Ol.			tr	L		Several pieces
STATION D-7	DREDGE No. 7										
		3K			Calc. ooze						
	Loose sediment	2K		foram-pteropod sand							
	Sediment	2K		indurated calc. ooze							
STATION D-8	DREDGE No. 8										
	Basalt	450g				25%			L		Coral encrusted
STATION D-10	DREDGE No. 10										
	Biogenic debris	115g		branching cora and sponge colonies							



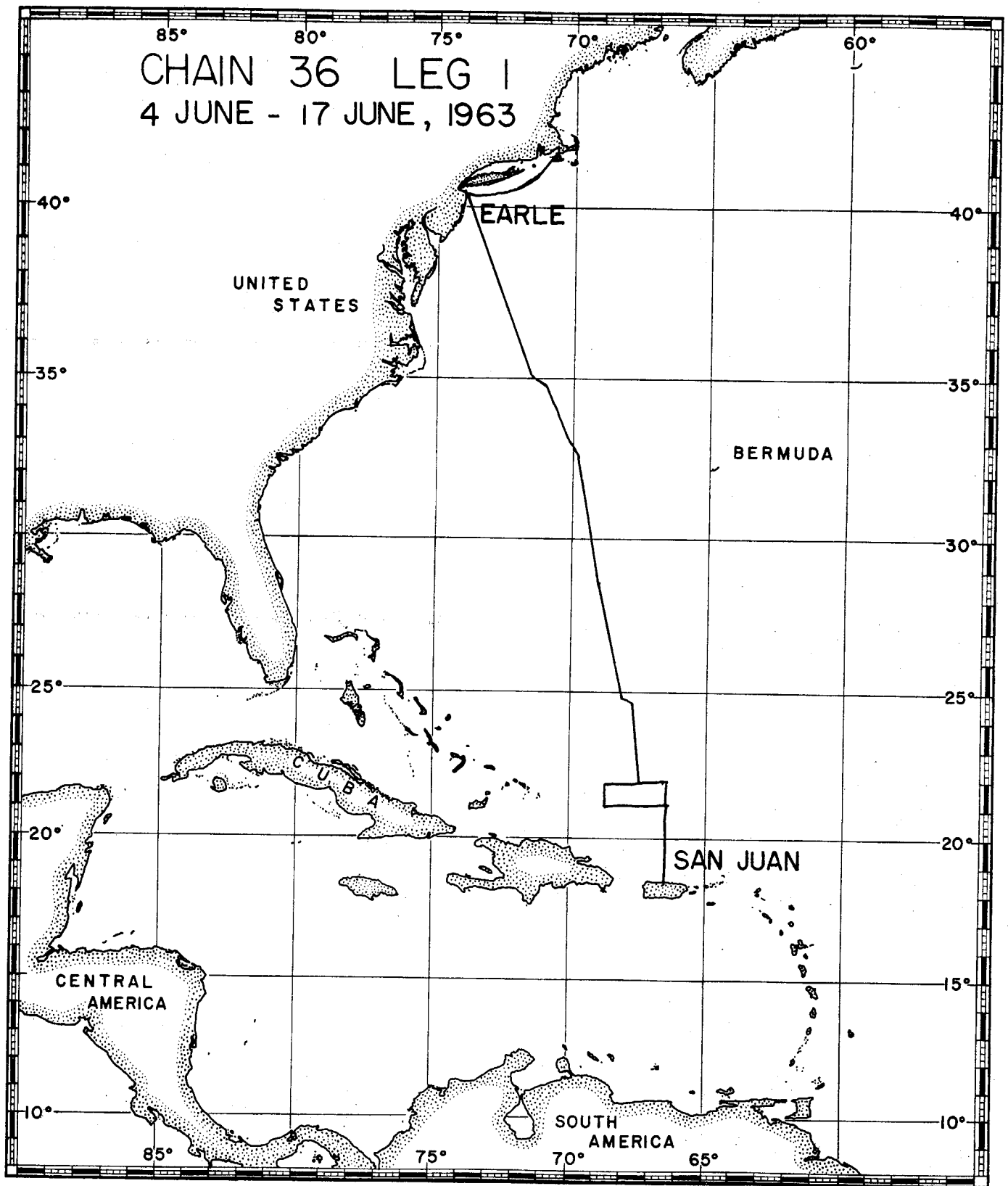


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 STATION DATA RETRIEVAL  
 DATE: 08:52 SEP 21,'81  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	DEN	MARS- SQUARE	CORE OR DREDGE	CORE NUMBER	DEPTH	END DEPTH	DREDGE OR SAMPLE WEIGHT	DREDGE OR GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
CHN	34	1	0002	0000	8	6212 3	19 57.0°N	66 28.5°W	5	79.96	0002	7362.	7362.	001K	17	0000	0				
CHN	34	1	0003	0000	8	6212 4	20 16.0°N	65 41.0°W	5	79.05	0003	7002.	6127.	126K	17	0000	0				
CHN	34	1	0004	0000	8	6212 4	20 12.5°N	65 48.0°W	5	79.05	0004	6687.	6518.	3.6K	17	0000	0				







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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICF	DATE YRMONDA	LATITUDE	LONGITUDE	TYPE	FIX	DEN	MARS- DREDGE	CORE OR DREDGE	NUMBER	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE	PHYSIO- GRAPHIC	ROCK OR SED.	VITA	TYPE	CODE	REMARKS
CHN	36	1	0017	0000	8	63 630	16 43.0°N	58 6.0°W	1	42.68	0005	5065.	4274.	051K	17	0000	0						
CHN	36	1	0018	0000	8	63 7 8	36 42.0°N	67 59.0°W	5	115.67	0006	4327.	4111.	051K	12	0000	0						

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE CHAIN 36 STATION 17 DREDGE 5 DESCRIBED BY FARMER DATE 18 Jan. 1979

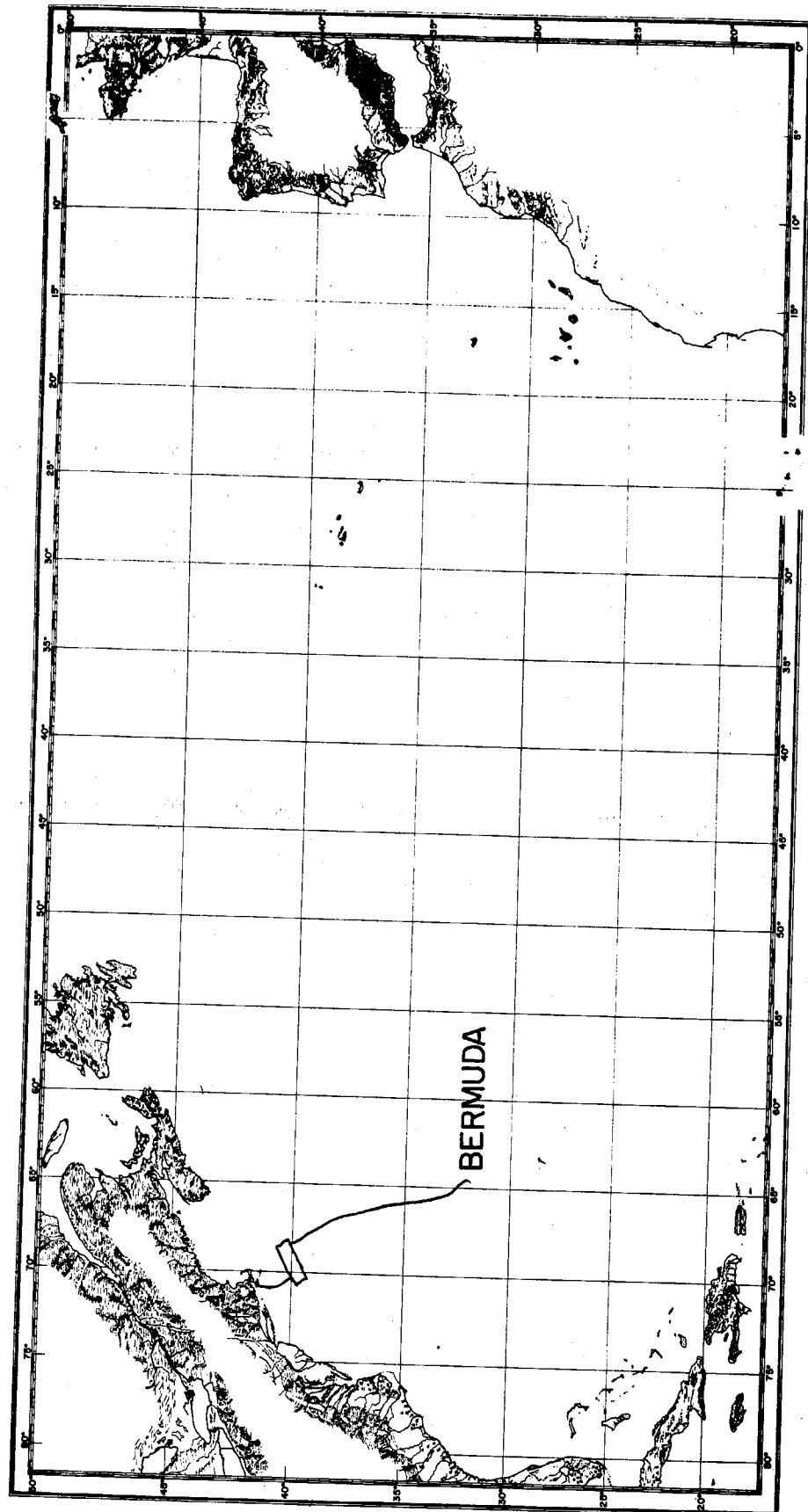
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
4	Gabbro	.05	M	plag., px					M		
2	Basalt	.6	A		tr. plag., px				M		
3	Basalt	.1	A		tr. plag.		tr	tr	M	very altered palagonite	highly variolitic
1	Basalt	.1	A				?		M-H	very altered palagonite	highly variolitic
5	Basalt	.1	A		tr. plag.				M		
6	Diabase	.2	F						M		
7	Diabase/Basalt	.1	F						M		
8	Basalt	.1	A						M		
9	Diabase/Basalt	.3	F						M		
10	Diabase/Basalt	.2	F						M		
11	Diabase/Basalt	.3	F						L		
12	Diabase/Basalt	.1	F						M		
13	Basalt	.1	A		10% olivine 15% plag.				M	Black secondary minerals	coarse plag. phenocryst
14	Basalt	.1	A						M-H	Highly altered palagonite	highly variolite
20	Basalt	.2	A		5% plag. (small)				L		
24	Basalt	.6	A		10% plag.				L		
25	Basalt	.6	A				C?		H		highly variolitic
60	Basalt	20	A		10% plag. 2% ol.				L		

CRUISE CHAIN 36 STATION 17 DREDGE 5 DESCRIBED BY FARMER/BRODA DATE 18 Jan. 1979

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CHAIN 39 LEG II  
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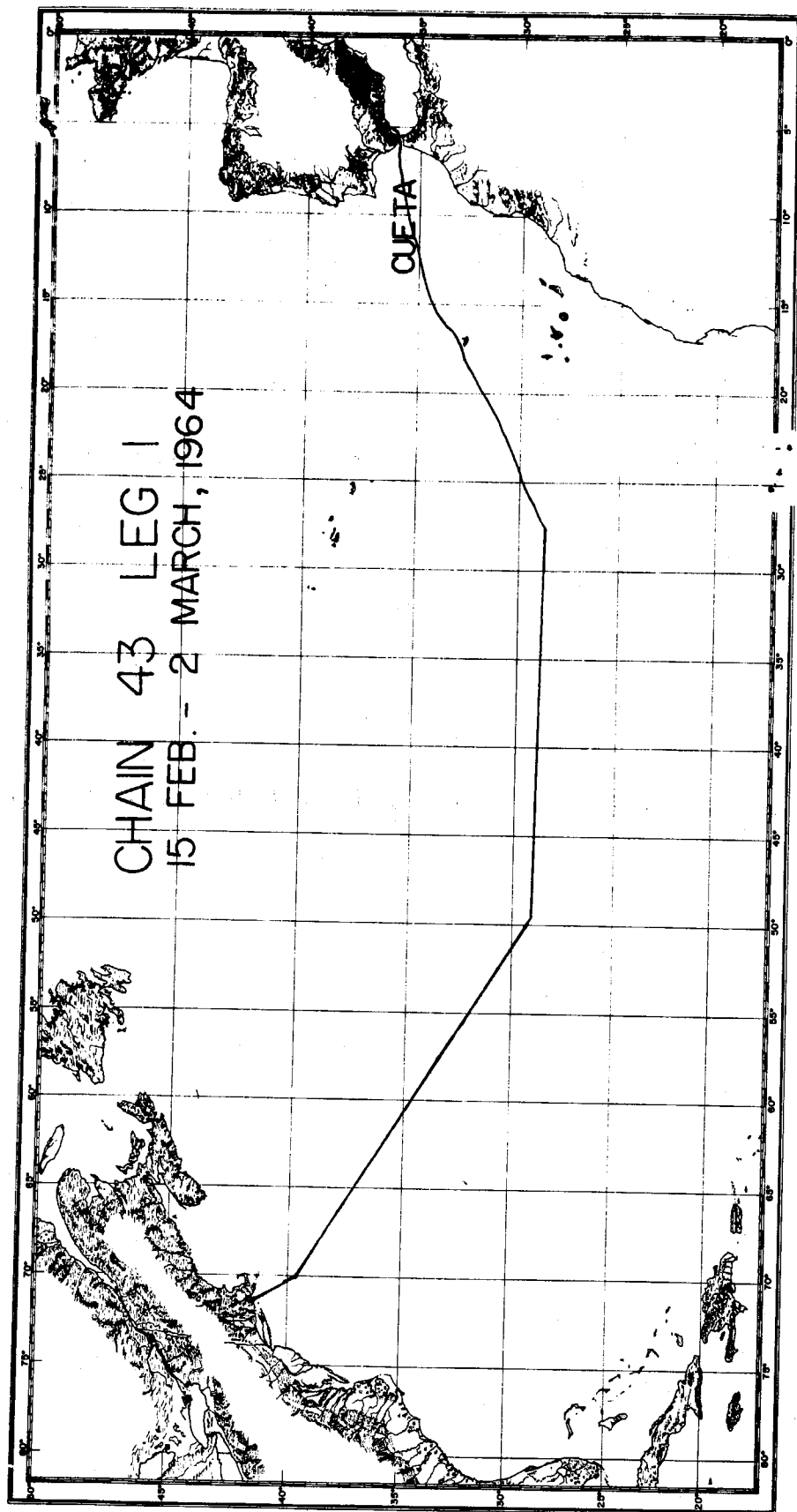


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\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81\*\*\*\*\*  
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SHIP	CRUISE	LEG	STATION	DE- NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX	MARS- DEN	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	REMARKS
CHN	39	2	0003	0000	8	63 9 9	25 14.0°N	54 51.0°W	5	78.54	0002	6228.	6177.	113G	11	0000	0	
CHN	39	2	0005	0000	8	63 9 10	25 12.0°N	55 28.0°W	5	78.55	0003	5564.	4722.	227G	11	0000	0	
CHN	39	2	0006	0000	10	63 9 11	24 28.0°N	55 6.0°W	5	78.45	0004	6097.	5884.	1.1K	11	0000	0	
CHN	39	2	0008	0000	8	63 9 12	23 58.0°N	55 .0°W	5	78.35	0005	5820.	4935.	227G	11	0000	0	
CHN	39	2	0012	0000	8	63 9 16	29 14.0°N	59 47.0°W	5	78.99	0006	5578.	5537.	113G	11	0000	0	
CHN	39	2	0013	0000	8	63 9 17	29 22.0°N	59 48.0°W	5	78.99	0007	5723.	5472.	454G	11	0000	0	
CHN	39	2	0014	0000	8	63 9 18	29 47.0°N	59 39.0°W	5	78.99	0008	5647.	5076.	227G	11	0000	0	

CRUISE	CHAIN	STATION	DREDGE	DESCRIBED BY	FARMER/BRODA	DATE
	39		see below			

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WHOI	ROCK	SAMPLE	DESCRIPTION
100	100	100	100
101	101	101	101
102	102	102	102
103	103	103	103
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105	105	105	105
106	106	106	106
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112	112	112	112
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193	193	193	193

CHAIN 43 STATION \_\_\_\_\_ DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_ BRODA/FARMER \_\_\_\_\_

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE CHAIN 43 STATION see below DREDGE DESCRIBED BY BRODA/FARMER DATE

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
STATION 26	DREDGE RD-11										
	Algal limestone	450g									
STATION 35	DREDGE RD-12										
	Algal limestone	2K									
	Biogenic sand	2.5K		Coarse calc. sand, mostly weathered shell fragments.							
STATION 37	DREDGE RD-13										
	Biogenic sand	1.6K		fine calc. sand with many spicules.							
STATION 39	DREDGE RD-14										
	Foram sandstone	115g									
	Algal limestone	230g									
STATION 44	DREDGE RD-16										
	Foram sandstone	680g		heavily burrowed with thin Mn coating.							
STATION 52	DREDGE RD-21										
	Limestone	8g		fragments							
	Basalt?	2g		one pebble							
STATION 61	DREDGE RD-22										
	Sponges	15g		branching type							
	Calc. ooze	60g		indurated							





# WHOI ROCK SAMPLE DESCRIPTION

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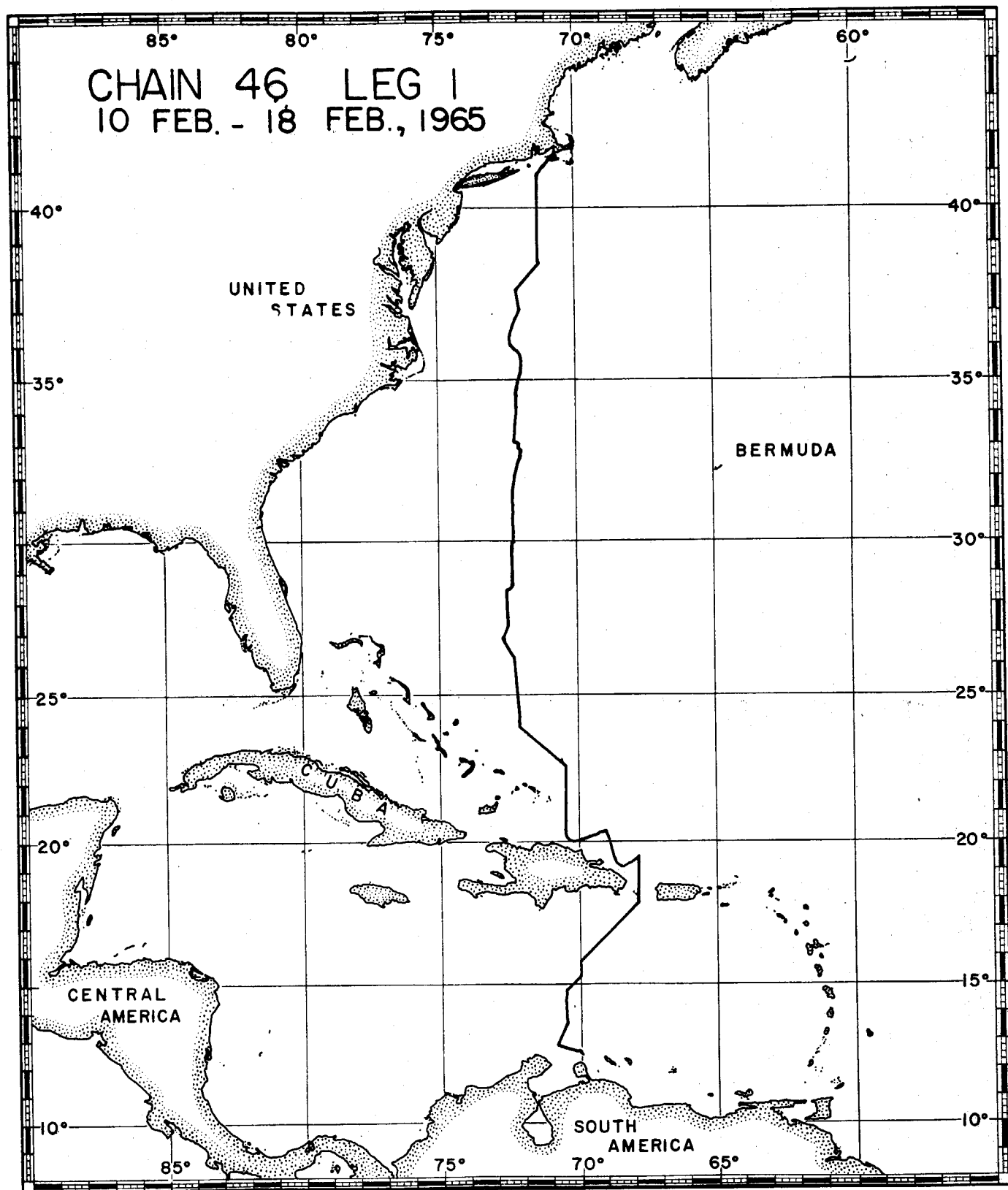
CRUISE		CHAIN 43	STATION		104	DREDGE		RD-37	DESCRIBED BY		BRODA/FARMER	DATE	
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks		
24	Basalt	1.0	A		7% ol.	15	C	.2 mm	L				
18	Basalt	1.8	A		3% ol. 5% ol.	20	tr		L		large vesicles, coarse plag. phenocrysts.		
7	Basalt	1.0	A		tr Pg	20	tr	-	L		large vesicles		
6	Basalt	1.4	A		tr ol., tr Pg.	6%	tr	.2	L				
17	Basalt	2.0	A		12% ol.	7	-	.3 mm	L	slight palagonite rind			
14	Basalt	.8	A		1% ol, tr Pg.	1%	-	.3 mm	L				
3	Basalt	.7	A		4% ol. tr Pg.	4%	tr	.2	L				
16	Basalt	2.1	A			2%	-	.3	F				
15	Basalt	.4	A			20	-	.3	L				
19	Basalt	.2	A		20% Pg, 5% ol. tr px	3%	-	.2	L		plag. phenocrysts very la		
13	Basalt	2.3	A			1%		.5	L				
47	Basalt	.4	A		3% ol.	20%		.3	L				
41	Basalt	.4	A		2% Pg.	15%		.3	L				
12	Basalt	1.2	A		-	tr		.01	F				
49	Basalt	.9	A		7% ol.	10%		.2	L				
53	Basalt	.5	A		10% ol.	12%		.3	L		ol. phenocrysts large		
9	Basalt	1.3	A		2% Pg, 2% ol.	3%		.1	L				
64	Basalt	.4	A			2%		.2	L	trace of palagonite rind on glass			



CRUISE CHAIN 43 STATION see below DREDGE DESCRIBED BY FARMER/BRODA DATE           

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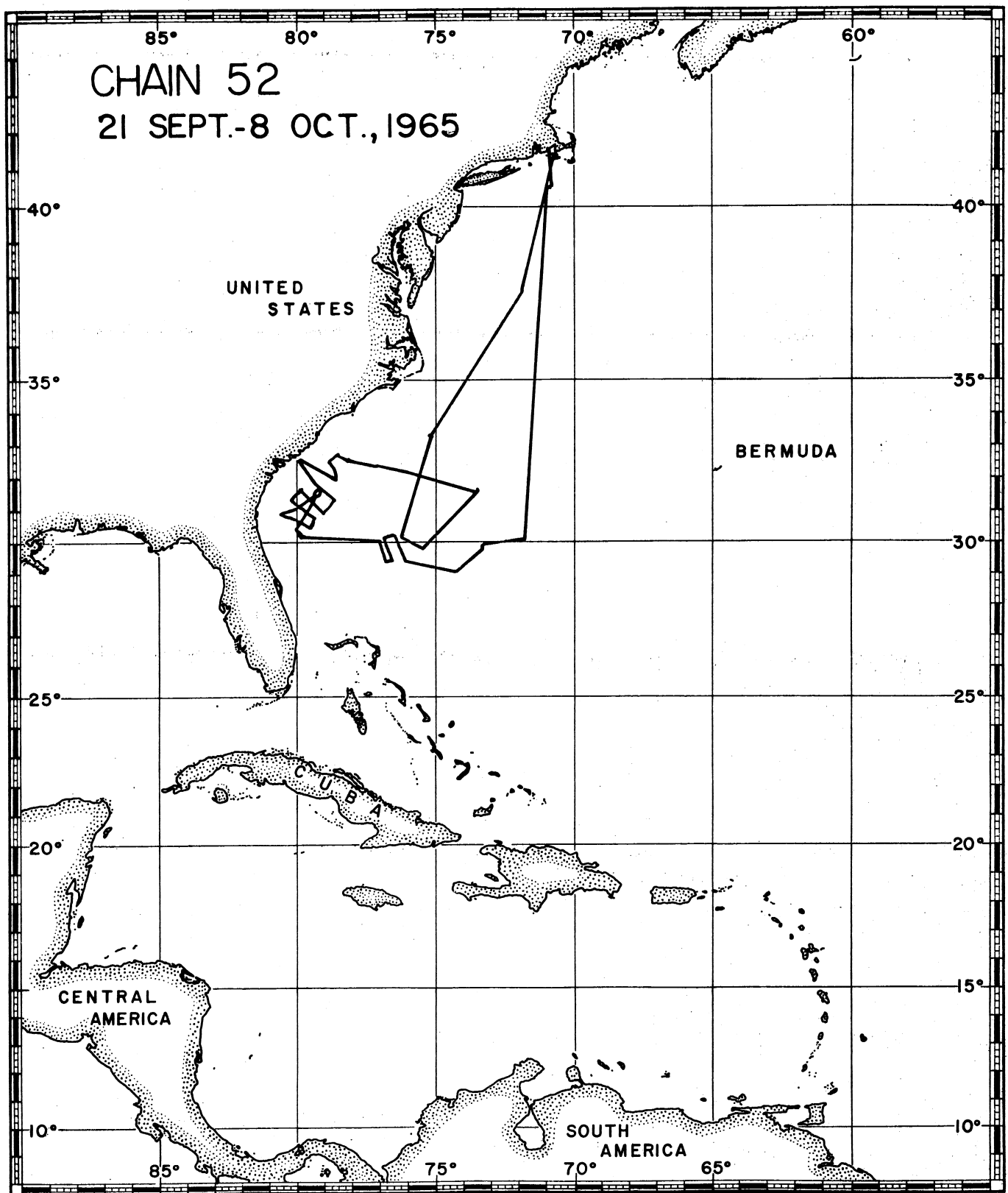
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DATE: 08:52 SEP 21, '81

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	CORE OR DREDGE	DEPTH	END DEPTH	OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR	TYPE CODE	REMARKS
CHN	46	1	0002	0000	8	65 222	18 49.9°N	67 19.3°W	5	43.87	0001	3572.	3288.	005K	25	0000	0	
CHN	46	1	0003	0000	8	65 222	18 47.5°N	67 22.8°W	5	43.87	0002	4830.	4801.	004K	25	0000	0	
CHN	46	1	0005	0000	9	65 223	18 49.2°N	67 28.6°W	5	43.87	0003	4318.	3723.	680G	25	0000	0	
CHN	46	1	0011	0000	7	65 4 6	30 12.2°N	77 50.0°W	5	116.07	0004	819.	818.	1.1K	7	0000	0	
CHN	46	1	0012	0000	7	65 4 6	30 25.9°N	77 52.0°W	5	116.07	0005	815.	815.	1.4K	7	0000	0	
CHN	46	1	0015	0000	7	65 4 7	30 43.8°N	78 5.0°W	5	116.08	0006	875.	875.	1.4K	7	0000	0	
CHN	46	1	0018	0000	7	65 4 7	30 50.0°N	78 11.0°W	5	116.08	0007	843.	843.	7.7K	7	0000	0	

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STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81

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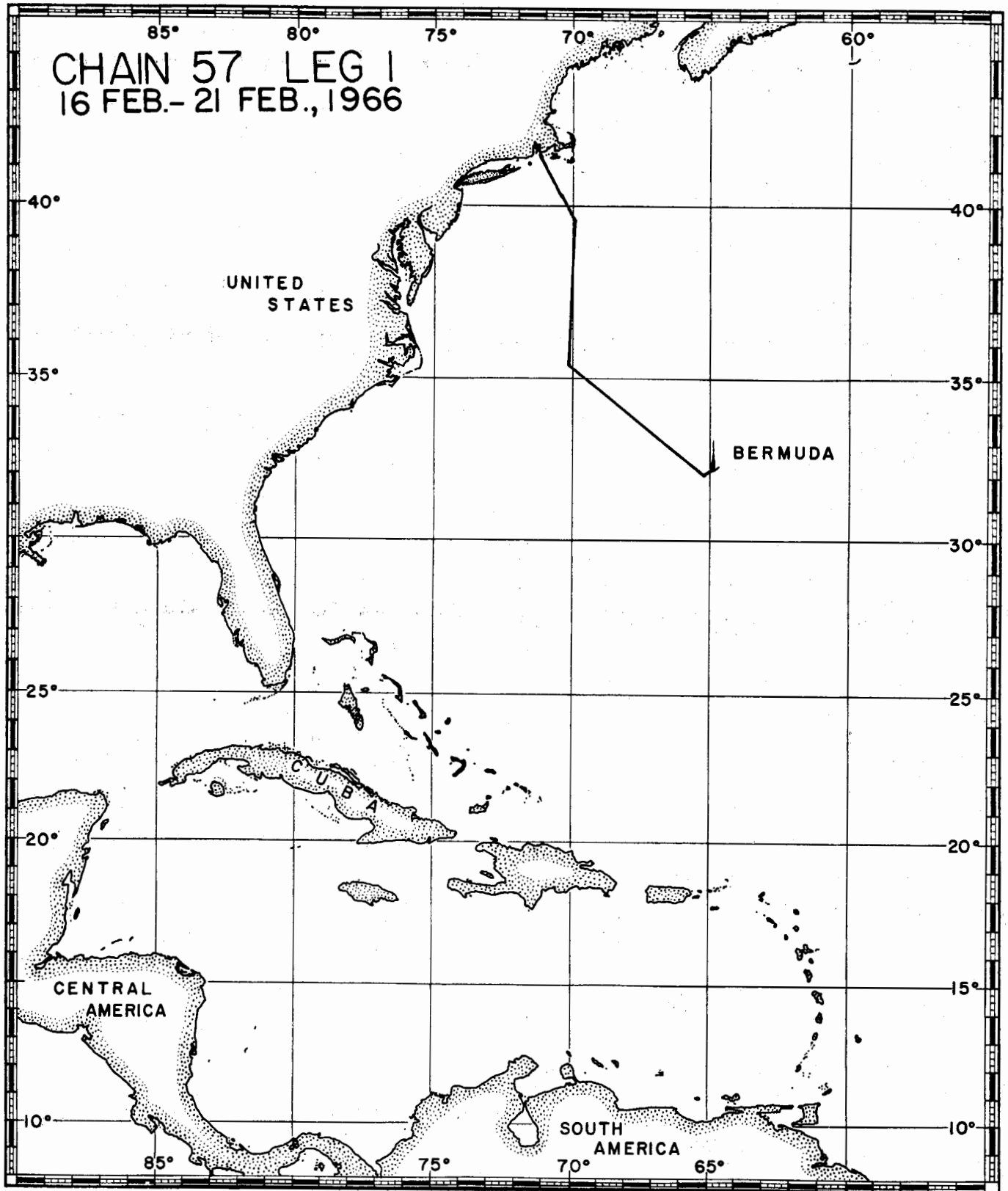
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	DEN SQUARE	MARS- DREDGE NUMBER	CORE OR DREDGE DEPTH	WARS- DREDGE NUMBER	CORE OR DREDGE DEPTH	END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
CHN	52	1	0001	0000	7	65 927	30 1.0°N	76 43.2°W	5	116.06	0001	1269.	1267.	1.4K	7	0000	0				
CHN	52	1	0004	0000	7	65 929	31 45.2°N	79 8.7°W	5	116.19	0002	528.	528.	1.6K	7	0000	0				
CHN	52	1	0005	0000	7	65 929	31 40.5°N	79 12.0°W	5	116.19	0003	509.	509.	1.8K	7	0000	0				
CHN	52	1	0007	0000	7	65 929	31 35.1°N	79 13.9°W	5	116.19	0004	464.	458.	010G	7	0000	0				
CHN	52	1	0008	0000	7	65 930	31 36.6°N	79 17.0°W	5	116.19	0005	453.	453.	2.3K	7	0000	0				
CHN	52	1	0009	0000	7	65 930	31 38.5°N	79 21.7°W	5	116.19	0006	528.	519.	1.9K	7	0000	0				
CHN	52	1	0011	0000	8	6510 1	32 5.3°N	78 50.0°W	5	116.28	0007	383.	398.	042K	7	0000	0				
CHN	52	1	0012	0000	7	6510 3	32 11.3°N	75 51.0°W	5	116.25	0008	2560.	2566.	1.5K	7	0000	0				

DATE \_\_\_\_\_

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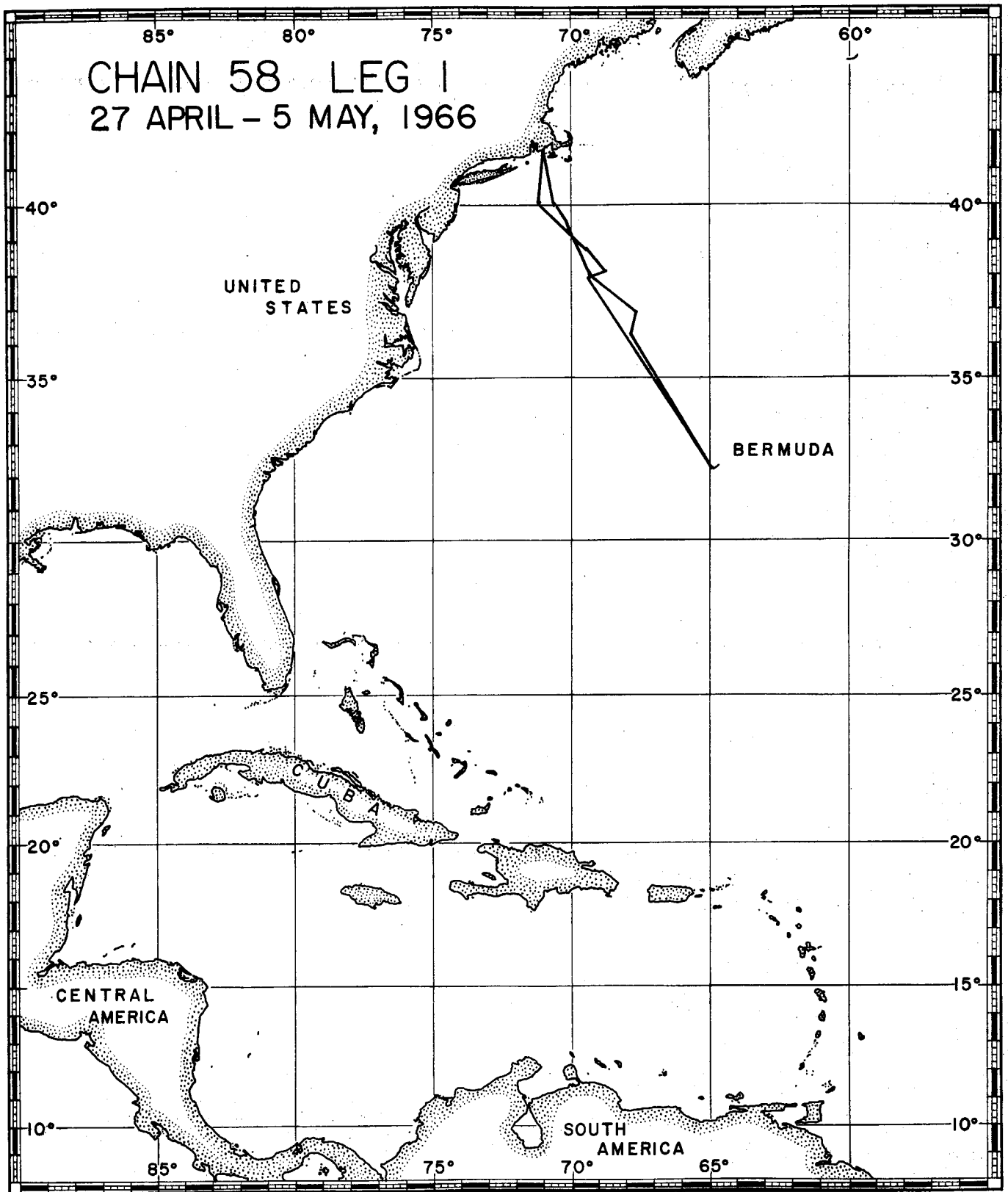






CRUISE CHAIN 57 STATION see below DREDGE            DESCRIBED BY            DATE           

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 DATE: 08:52 SEP 21,'81  
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 \*\*\*\*\*  
 CORE LENGTH DREDGE ROCK  
 OR OR  
 END SAMPLE GRAPHIC SED. VITA  
 CORE LENGTH DREDGE ROCK  
 OR OR  
 END SAMPLE GRAPHIC SED. VITA

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 MARS- CORE OR  
 FIX DEN DRDGE  
 TYPE SQUARE NUMBER DEPTH  
 LATITUDE LONGITUDE TYPE SQUARE NUMBER DEPTH  
 LATITUDE LONGITUDE TYPE SQUARE NUMBER DEPTH

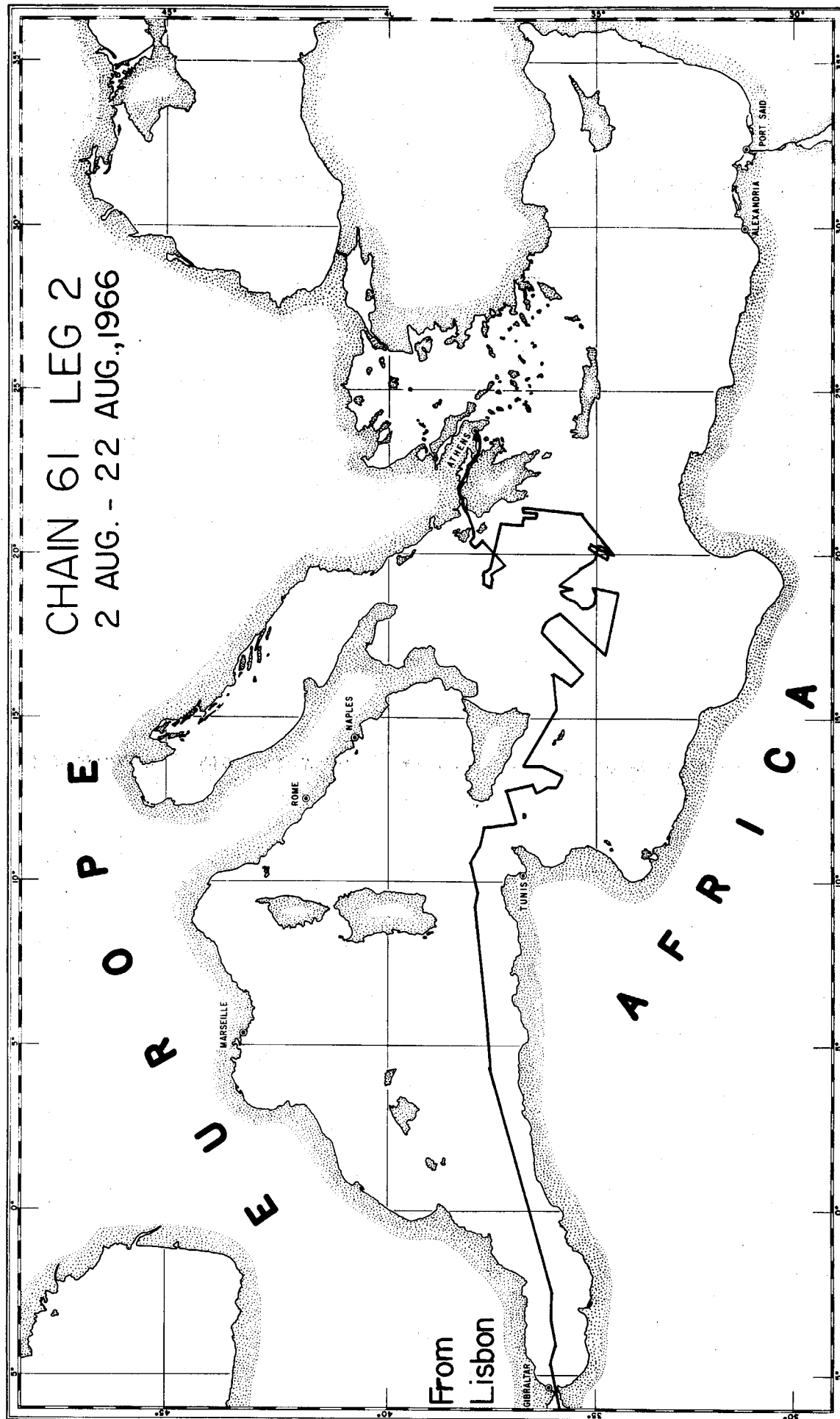
SHIP CRUISE LEG STATION NUMBER VICE YRMODE SAMPLE DE- DATE  
 58 1 0100 0000 8 66 5 1 33 56.8'N 65 47.0'W 1 115.35 0009 4743. 4892. 035K 13 0000 0

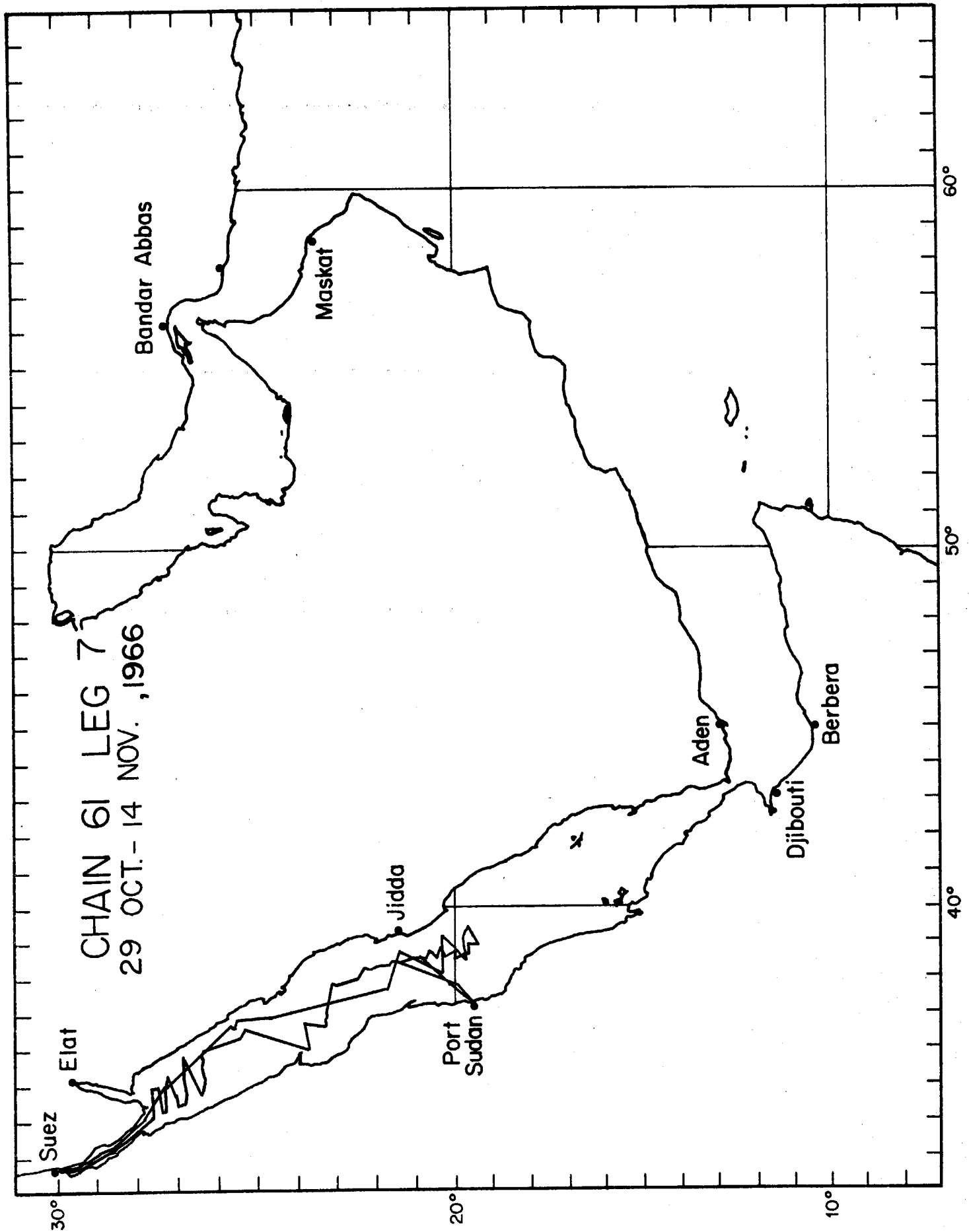
CHN 58 1 0100 0000 8 66 5 1 33 56.8'N 65 47.0'W 1 115.35 0009 4743. 4892. 035K 13 0000 0

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 \*\*COMMENTS\*\*  
 DEVICE: EPIBENTHIC TRAWL

CRUISE \_\_\_\_\_ CHAIN 58 STATION 100 DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_ DATE \_\_\_\_\_

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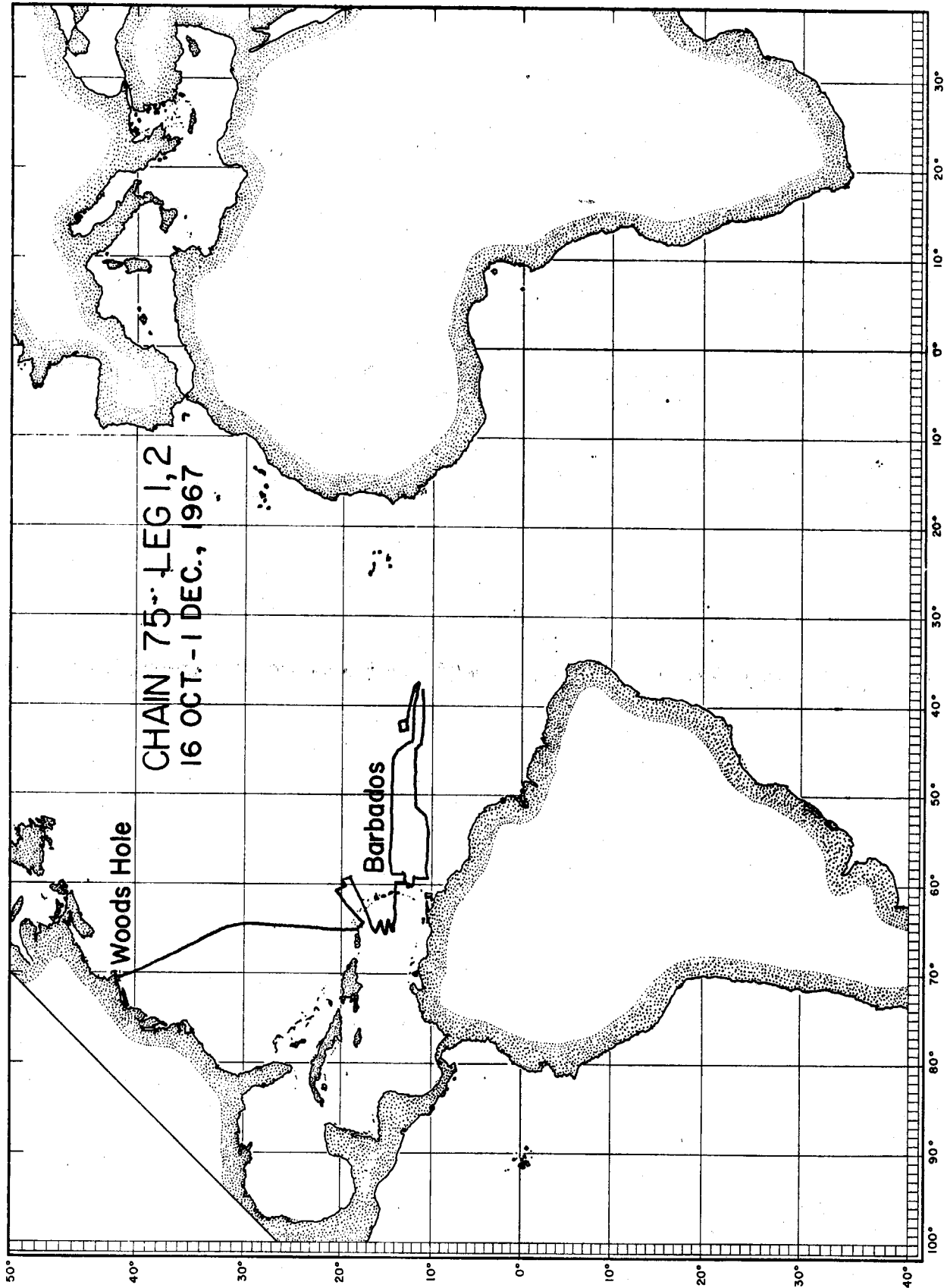
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 DATE: 08:52 SEP 21, '91  
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 PAGE 1  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMDA	LATITUDE	LONGITUDE	FIX DEN	MARS- CORE OR DREDGE	SQUARE NUMBER	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	ROCK OR PHYSIO- GRAPHIC SED.	VITA PROV.	TYPE CODE	REMARKS
CHN	61	2	0021	0000	8	66 8 9	36 13.5°N	13 24.6°E	6	143.63	0001	1268.	1268.	113G	21	0000	0	
CHN	61	7	0145	0000	8	66 11 2	21 22.0°N	38 4.2°E	10	105.18	0002	2130.	2130.	680G	21	0000	0	

CRUISE CHAIN 61 STATION see below DREDGE DESCRIBED BY DATE

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STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81  
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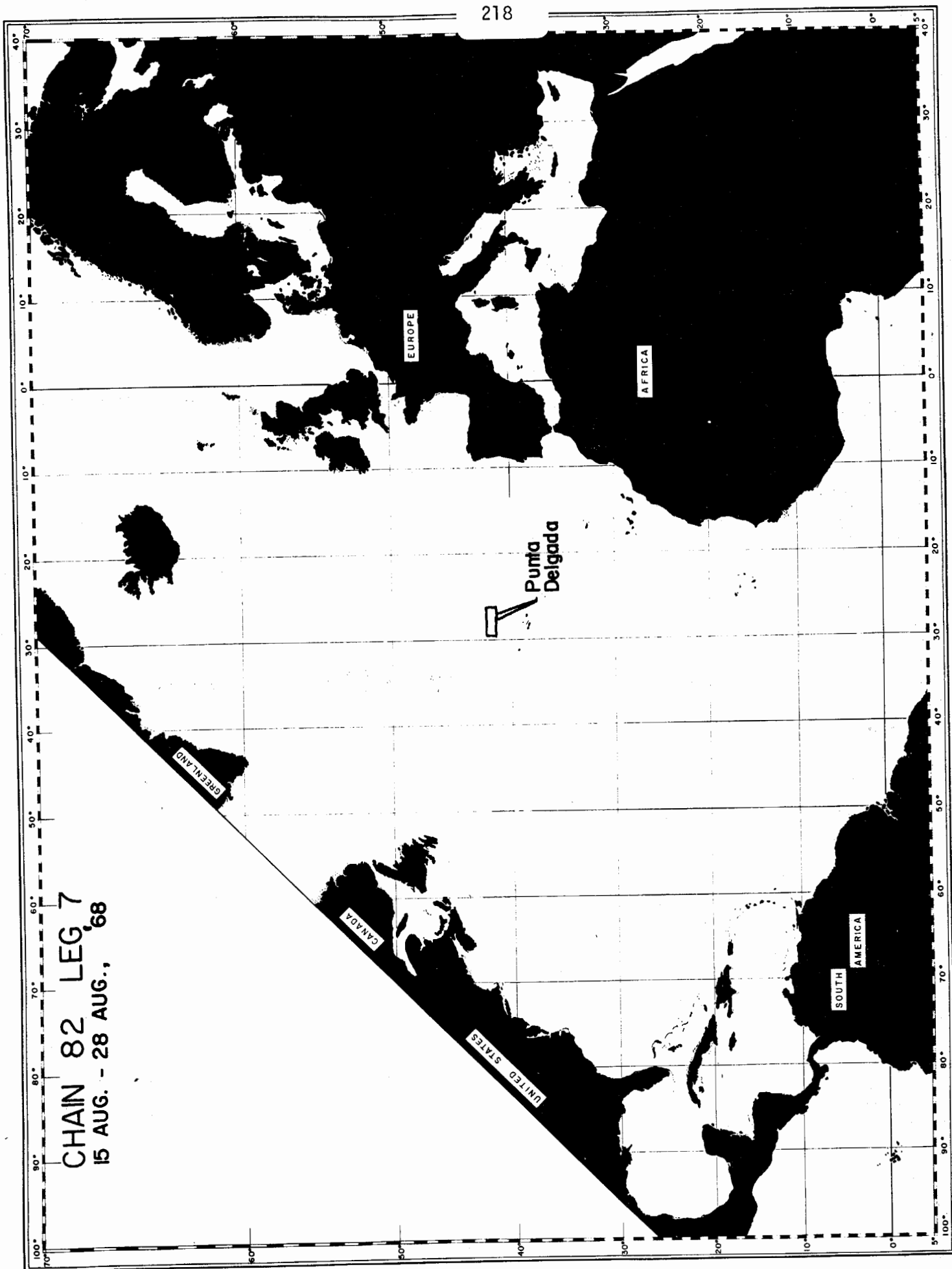
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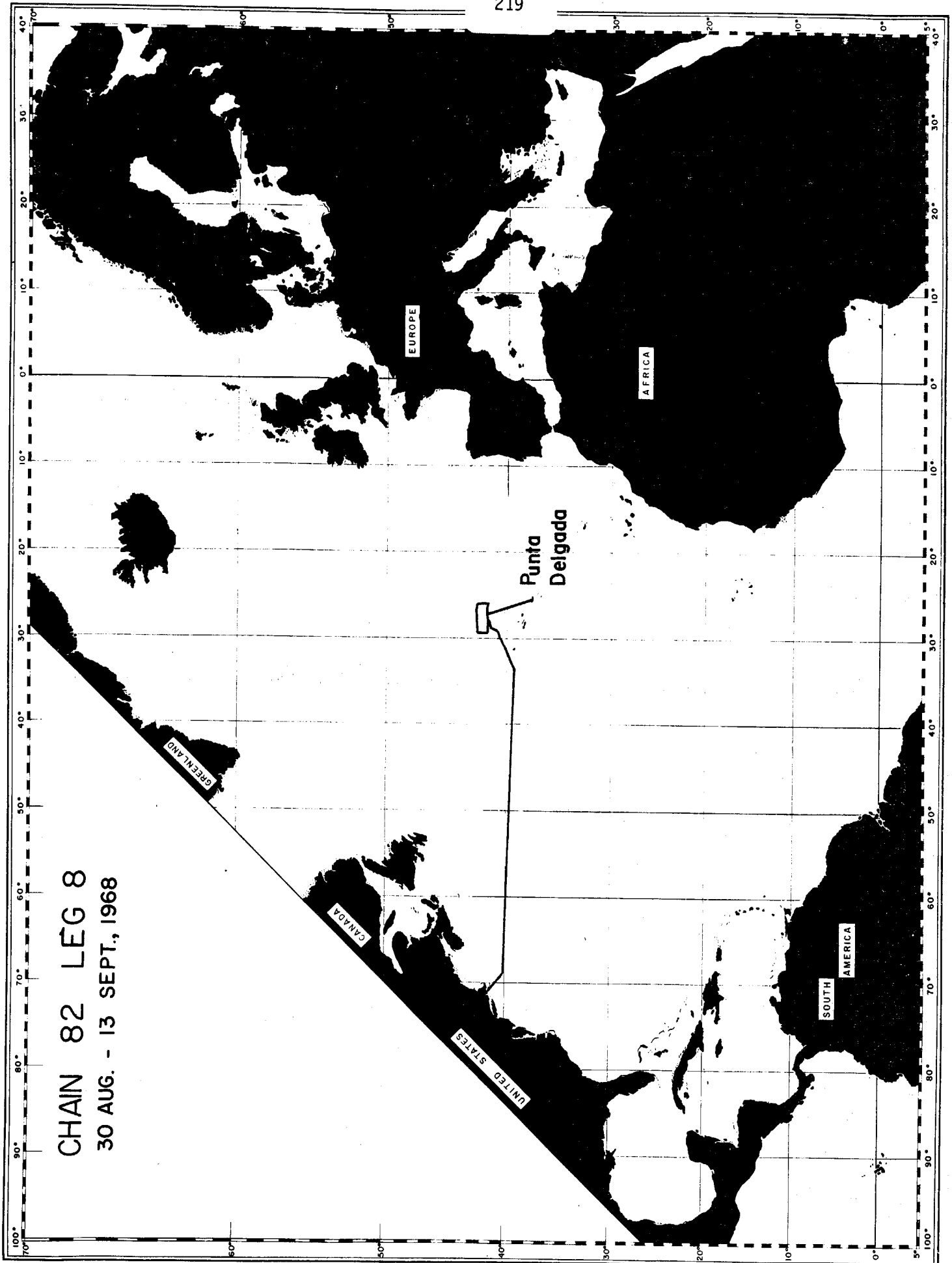
SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX	DEN	MARS- SQUARE	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
CHN	75	1	0003	0000	8	671029	15 29.0°N	64 5.0°W	4	43.53	0001	1086.	1215.	454G	13	0000	0			
CHN	75	1	0005	0000	8	671030	14 42.5°N	63 36.5°W	4	43.43	0002	1239.	1454.	6.6K	13	0000	0			
CHN	75	2	0021	0000	8	671121	12 50.3°N	44 42.2°W	10	41.24	0003	2126.	1585.	8.8K	14	0000	0			
CHN	75	2	0022	0000	8	671121	12 52.7°N	44 50.9°W	10	41.24	0004	4630.	4438.	340G	16	0000	0			
CHN	75	2	0023	0000	8	671121	12 58.4°N	44 51.3°W	10	41.34	0005	4581.	4515.	227G	16	0000	0			
CHN	75	2	0025	0000	8	671122	12 58.8°N	44 58.5°W	10	41.34	0007	2333.	3162.	012K	14	0000	0			
CHN	75	2	0026	0000	8	671122	12 55.8°N	44 59.8°W	10	41.25	0008	2784.	2841.	009K	14	0000	0			
CHN	75	2	0027	0000	8	671122	12 58.0°N	44 41.1°W	10	41.24	0009	3256.	3049.	454G	14	0000	0			





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\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81\*\*\*\*\*  
\*\*\*\*\*PAGE 1  
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SHIP	CRUISE	LEG	STATION	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	DEN SQUARE	MARS- DREDGE	CORE NR. NUMBER	CORE LENGTH OR END	DREDGE OR SAMPLE	PHYSIO- GRAPHIC WEIGHT	ROCK OR SED.	VITA PROV.	TYPE	CODE	REMARKS	
																				DEPTH
CHN	82	6	0029	8	68 811	41 55.0°N	29 13.0°W	8	147.19	0001	3112.	3065.	227G	16	0000	0				
CHN	82	7	0034	8	68 823	42 28.5°N	28 41.1°W	8	147.28	0002	1642.	1282.	011K	14	0000	0				
CHN	82	7	0035	8	68 823	42 31.0°N	29 15.0°W	8	147.29	0003	2489.	2471.	5.9K	16	0000	0				
CHN	82	8	0048	8	68 9 2	42 55.4°N	28 55.0°W	8	147.28	0006	1189.	1610.	050K	16	0000	0				



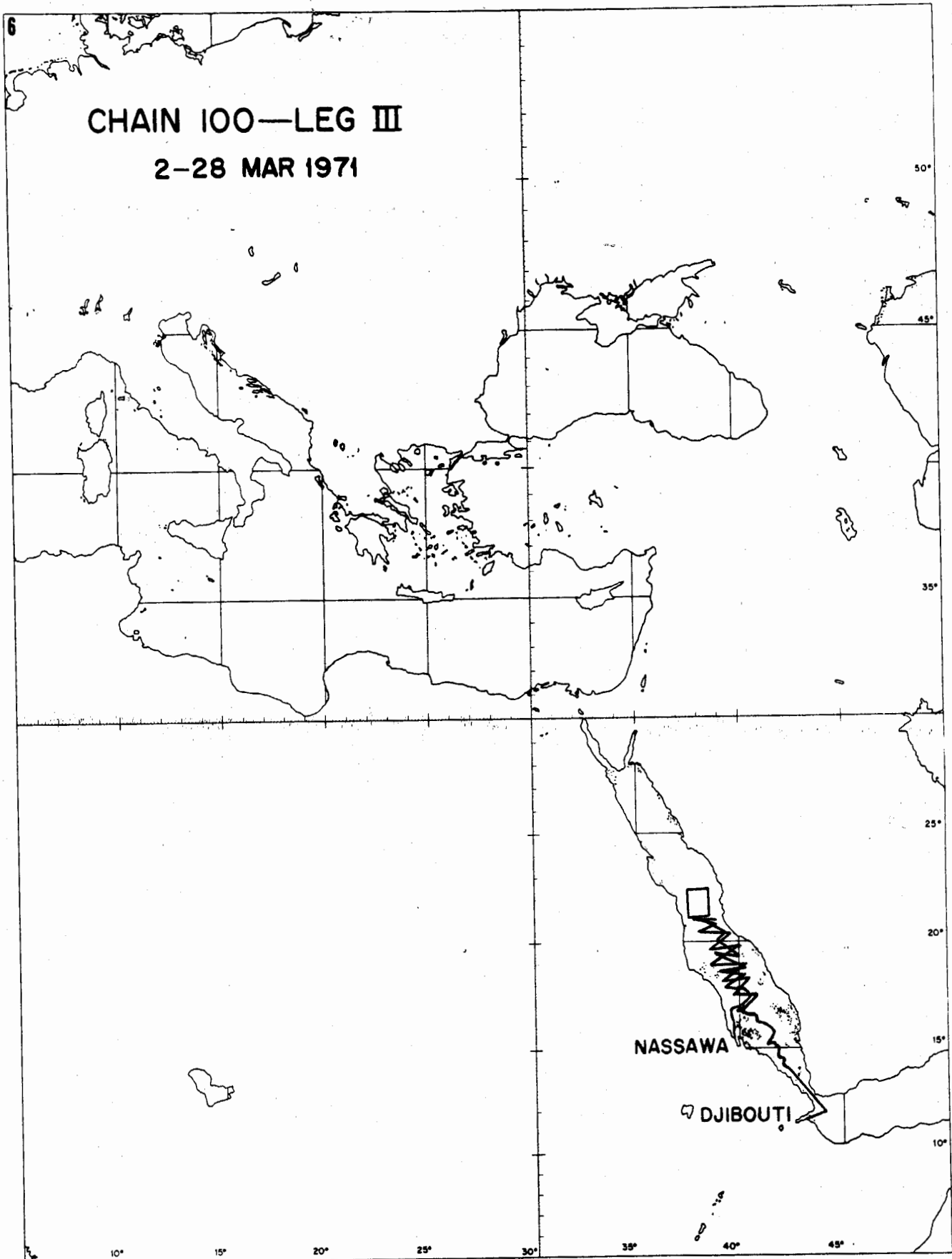
# WHOI ROCK SAMPLE DESCRIPTION

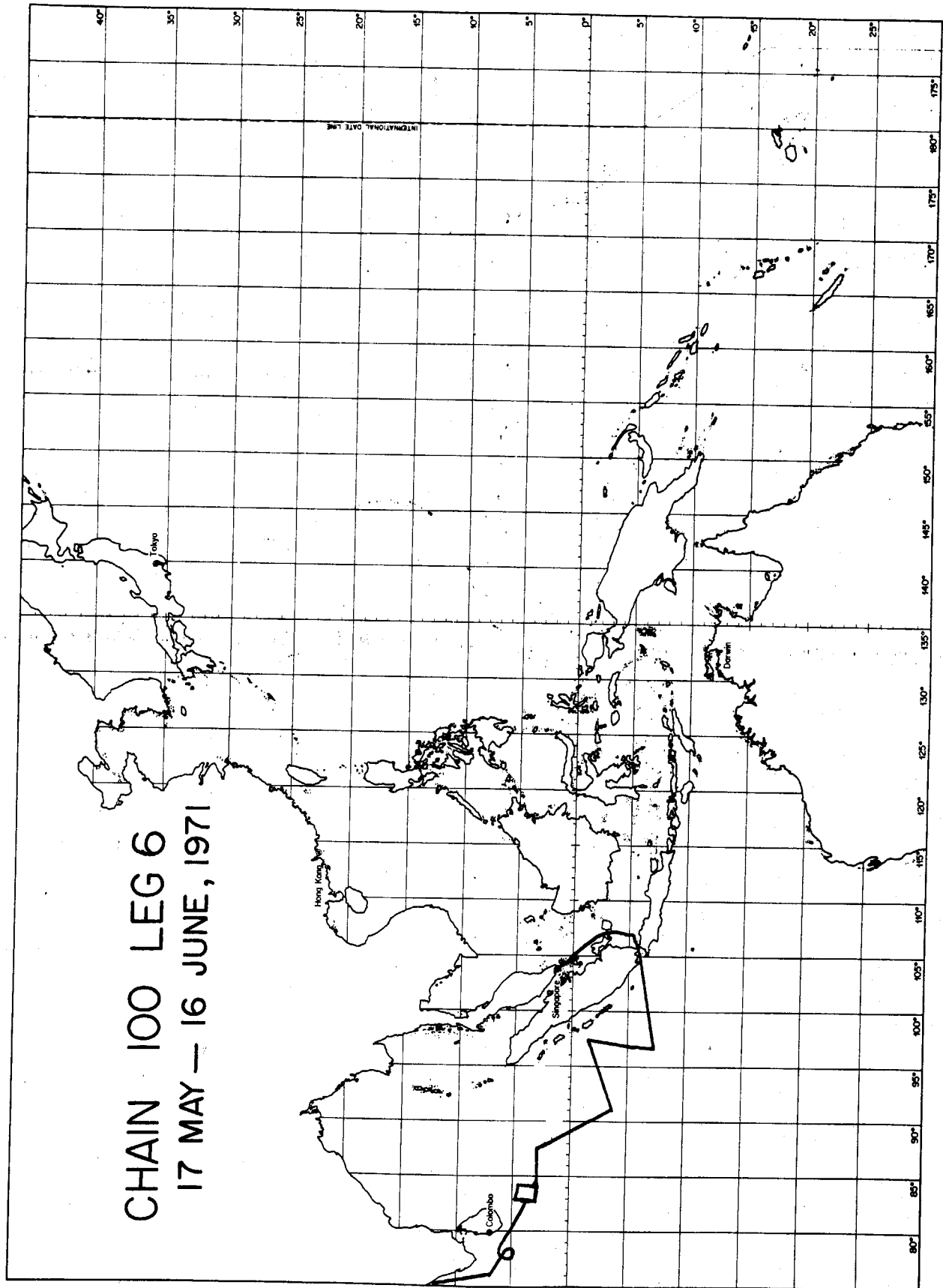
221

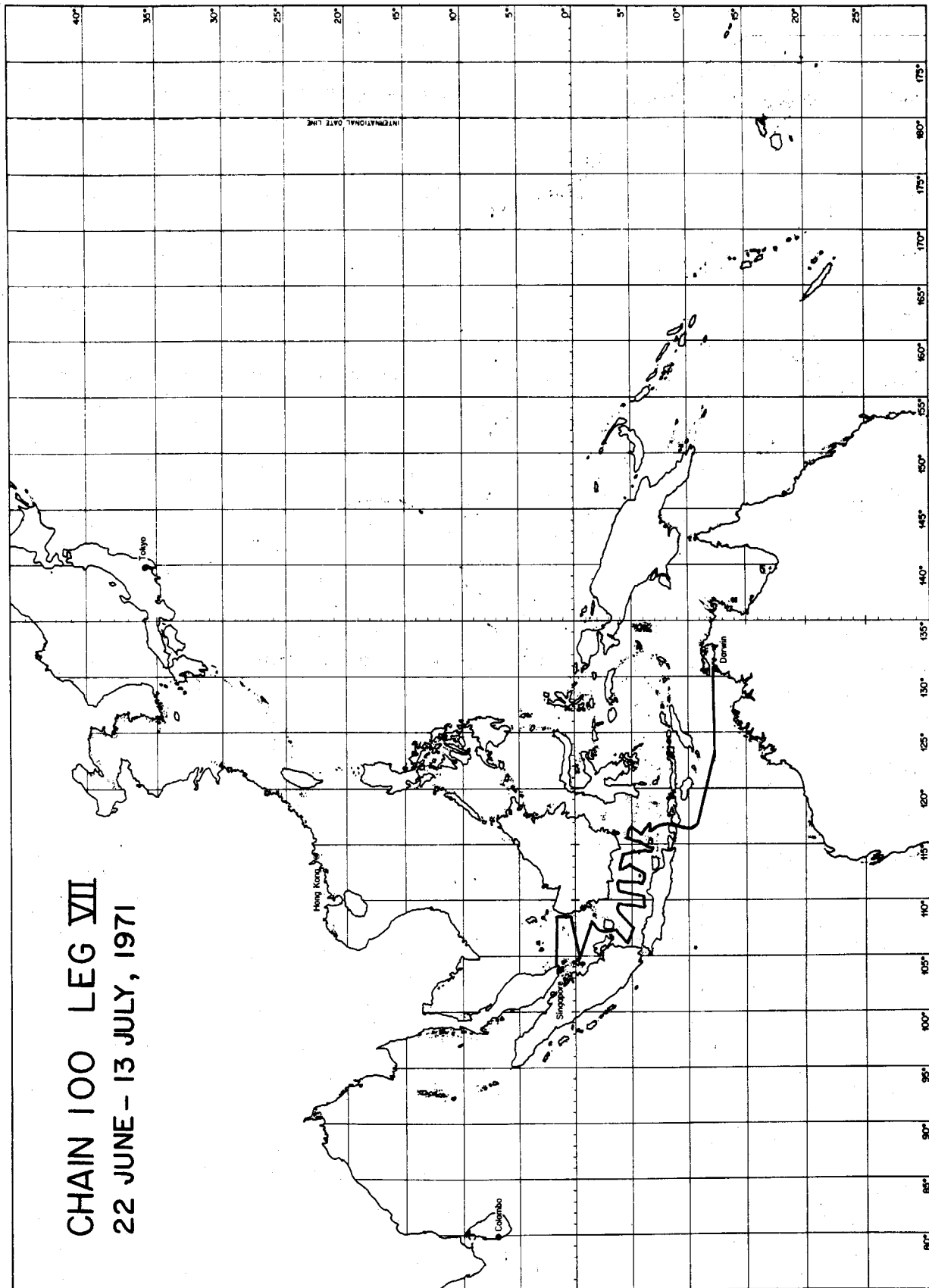
CRUISE CHAIN 82 STATION see below DREDGE DESCRIBED BY DATE

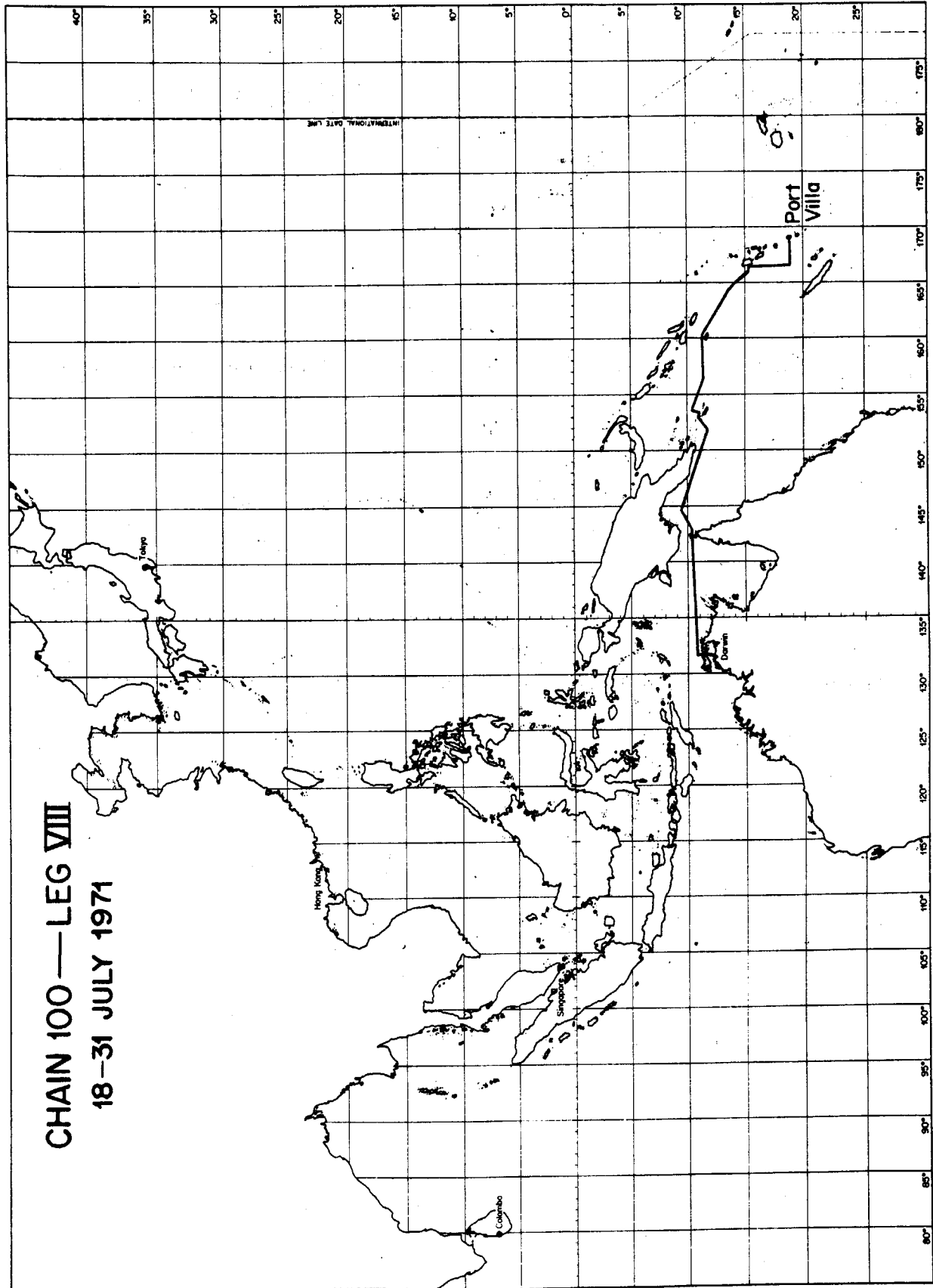
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
STATION 29	DREDGE 1										
-1	Basalt	.2	A	glassy margin	4% plag. (very small)	2%	-	-	F	tr. of palagonite	
STATION 34	DREDGE 2										
100	Basalt	20	A	-				2 mm	H	appears to be large lava tube or pillow that has weathered dramatically along cooling joints and now looks like conglomerate of basalt cobbles. Calcareous cement holds cobbles now. Considerable palagonite breccia and coral holdfasts.	
-1	Basalt	3	A		5(?) very weathered	4%	C	2 mm	H	thick CaCO <sub>3</sub> encrustation, and coral holdfasts & worm tubes.	
-3	Basalt conglomeration	1.5	A		5% (?) very weathered	4%	C	2 mm	VH		
-5	Basalt cobbles	1.1	A		"	4%	C	2 mm	VH		
-2, 4	Basalt	2.5	A		(?) very weathered	2%	C	2 mm	VH	sub-angular cobbles, some with variolitic rinds.	
-7	Basalt	.45	A		5% plag. (?) weathered	5%	C	2 mm	VH		
STATION 29											
1	Basalt	.2	A		2% plag. micro phen.	tr			L	glass margin with slight palagonitization	
STATION 34											
1	Basalt	3	A		4% plag. weathered	2	C	1-2	H	thick CaCO <sub>3</sub> encrustation, coral holdfasts & worm tubes.	
2-7	Basalt	6.5	A			tr-4	C	.5-2	H	discolored to yellow-brown	numerous angular small fragments, a few have heavily weathered phenocrysts (?), several have weathered chill margins with varioles.

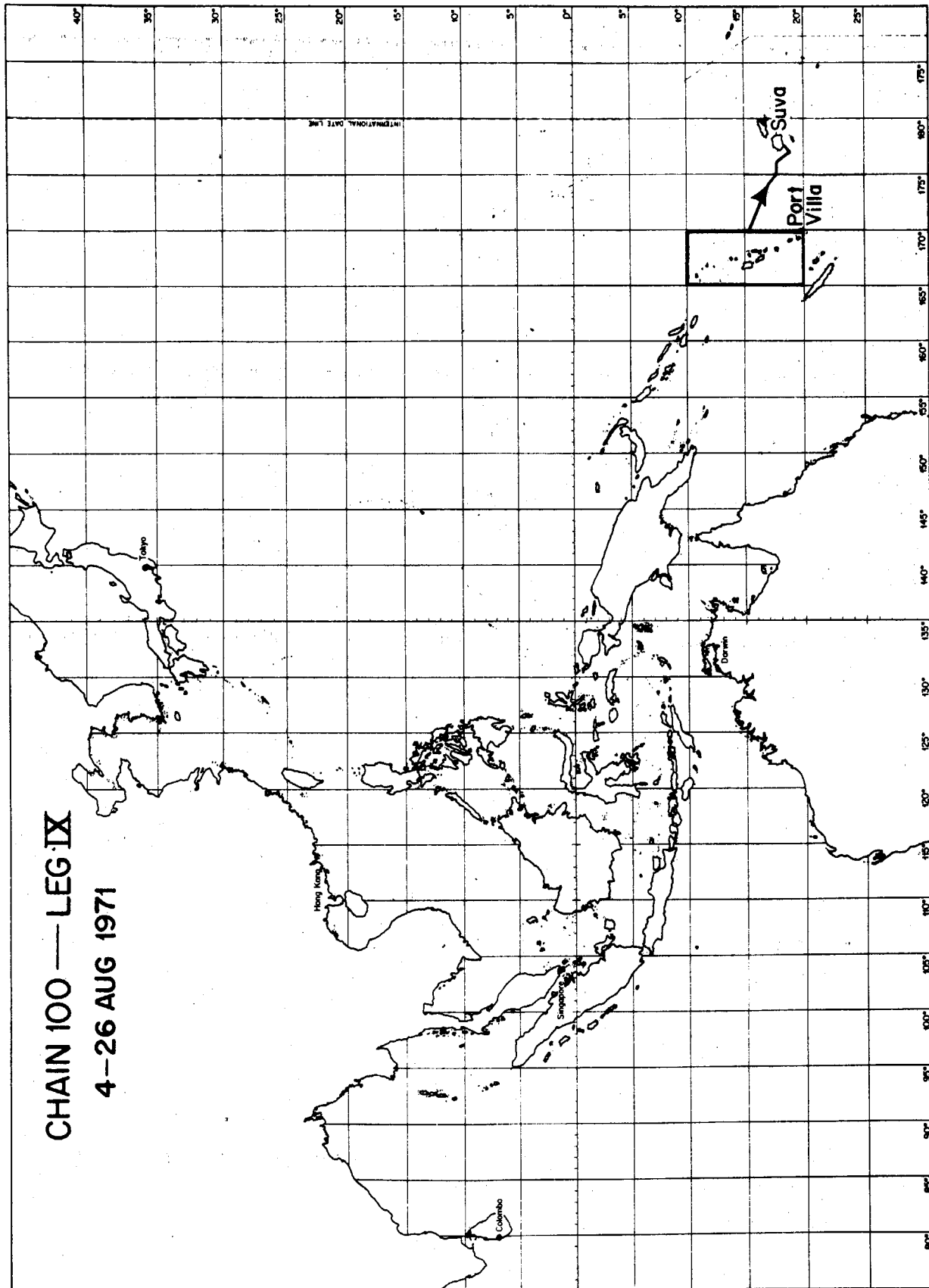












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\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81\*\*\*\*\*  
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	WARS- DEN	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	REMARKS CODE
CHN	100	3	0006	0000	8	71 3 5	19 38.4°N	38 36.2°E	9	69.98	0001	1831.	1739.	227G	16	0000	0	
CHN	100	6	0060	0000	8	71 531	4 .2°S	90 46.9°E	9	326.40	0005	4881.	3960.	011K	15	0000	0	
CHN	100	7	0061	0000	8	71 711	12 40.2°S	123 33.4°E	9	359.23	0006	127.	238.	3.9K	2	0000	0	
CHN	100	7	0064	0000	8	71 712	12 39.6°S	123 33.0°E	9	359.23	0009	239.	242.	012K	2	0000	0	
CHN	100	8	0066	0000	8	71 723	10 43.8°S	152 8.4°E	9	356.02	0010	3271.	3215.	1.8K	21	0000	0	
CHN	100	9	0081	0000	8	71 8 9	17 52.4°S	167 20.6°E	9	355.77	0014	4815.	4746.	044K	17	0000	0	
CHN	100	9	0086	0000	8	71 813	14 47.1°S	168 9.2°E	9	355.48	0015	2671.	2291.	045K	21	0000	0	
CHN	100	9	0090	0000	8	71 816	13 17.5°S	166 6.8°E	9	355.36	0016	7094.	6485.	5.9K	21	0000	0	

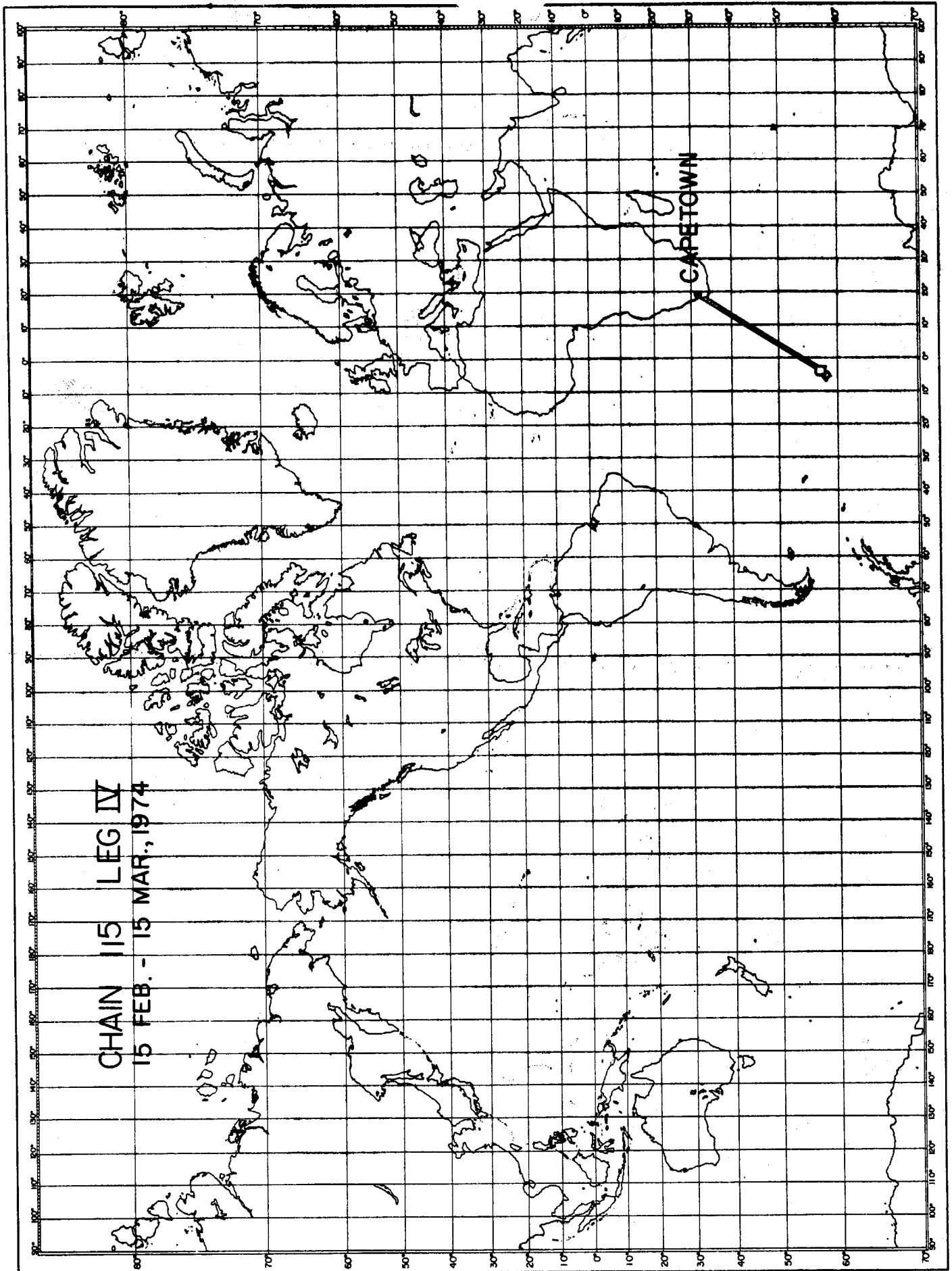


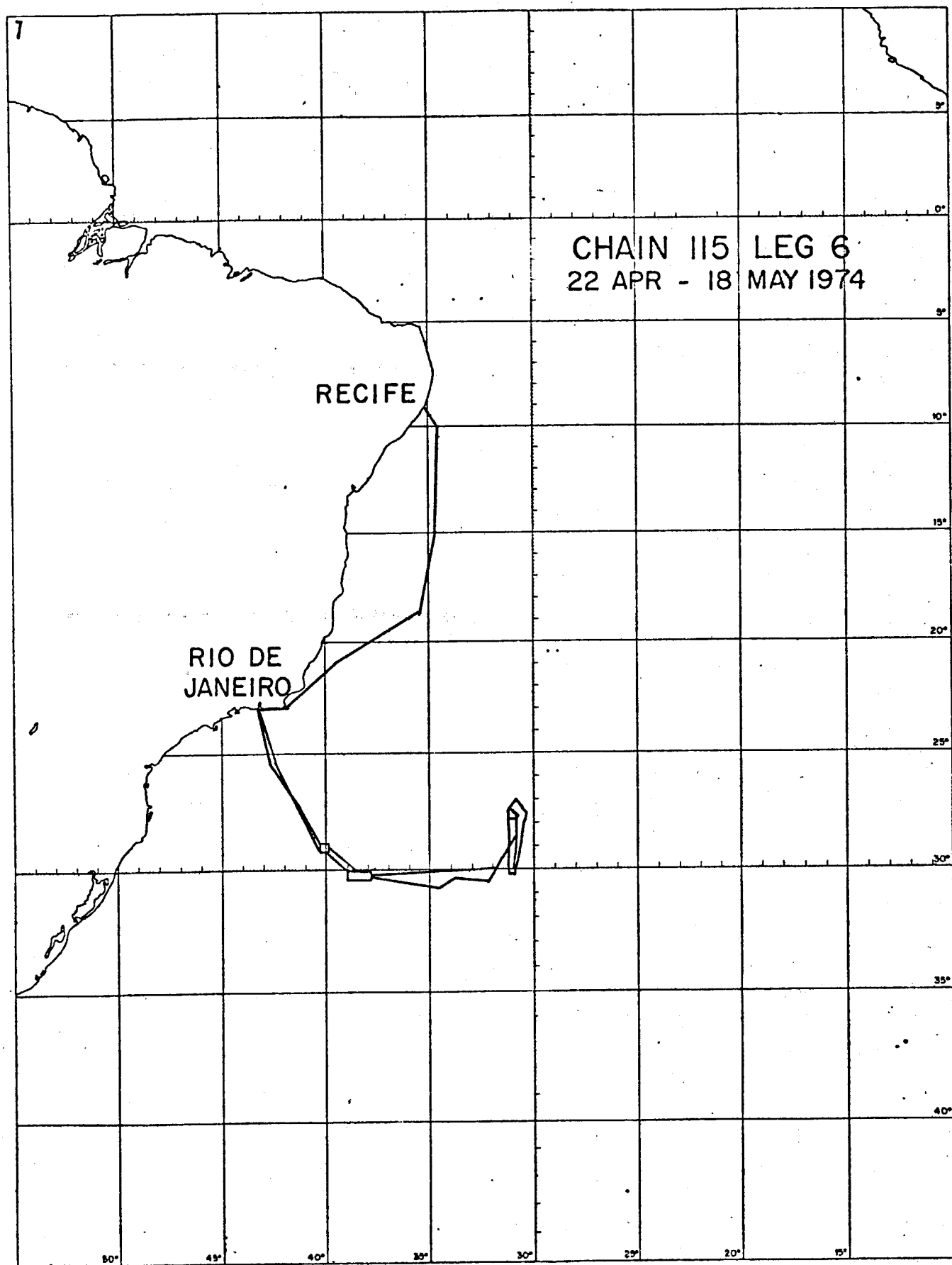


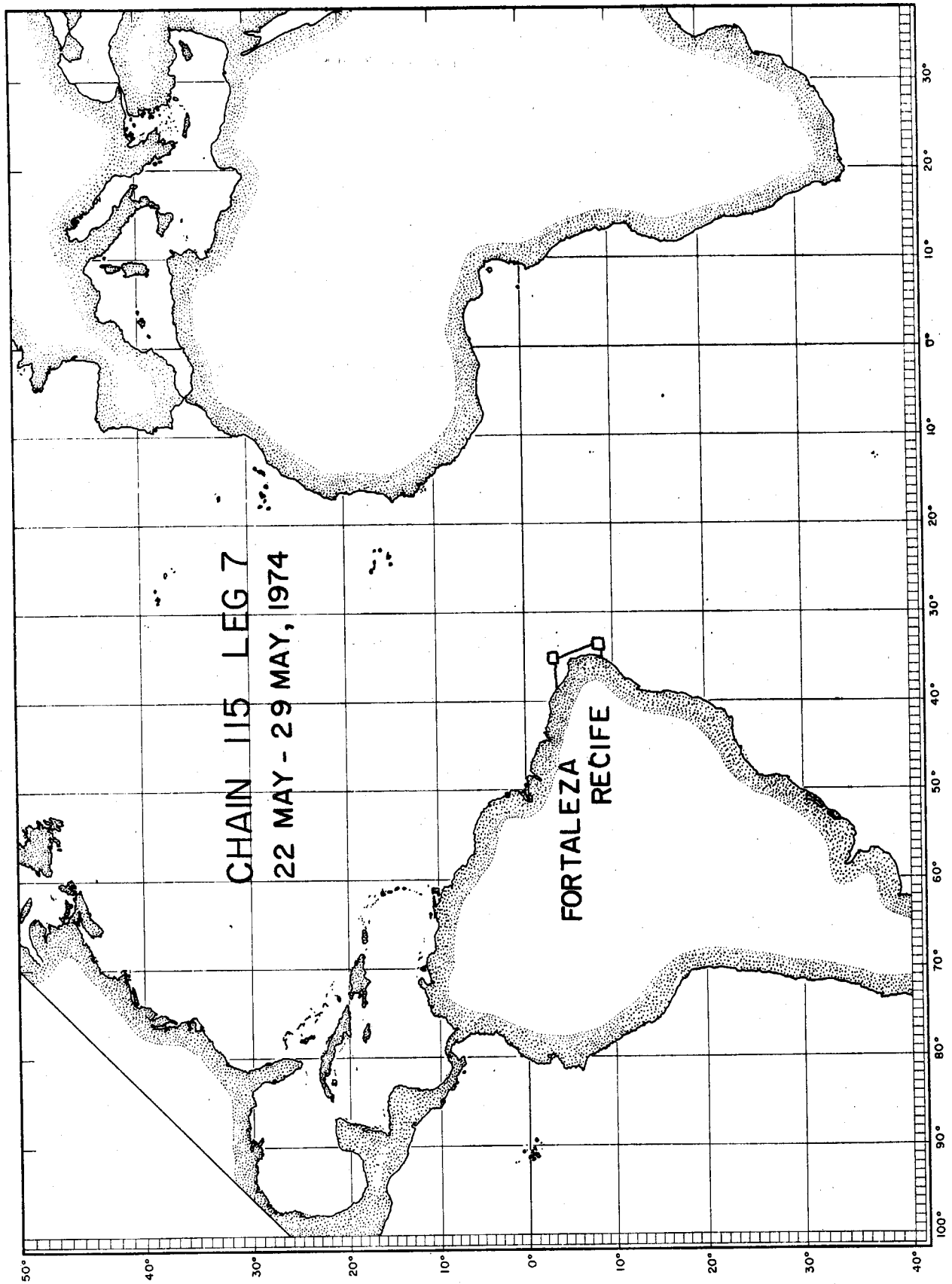
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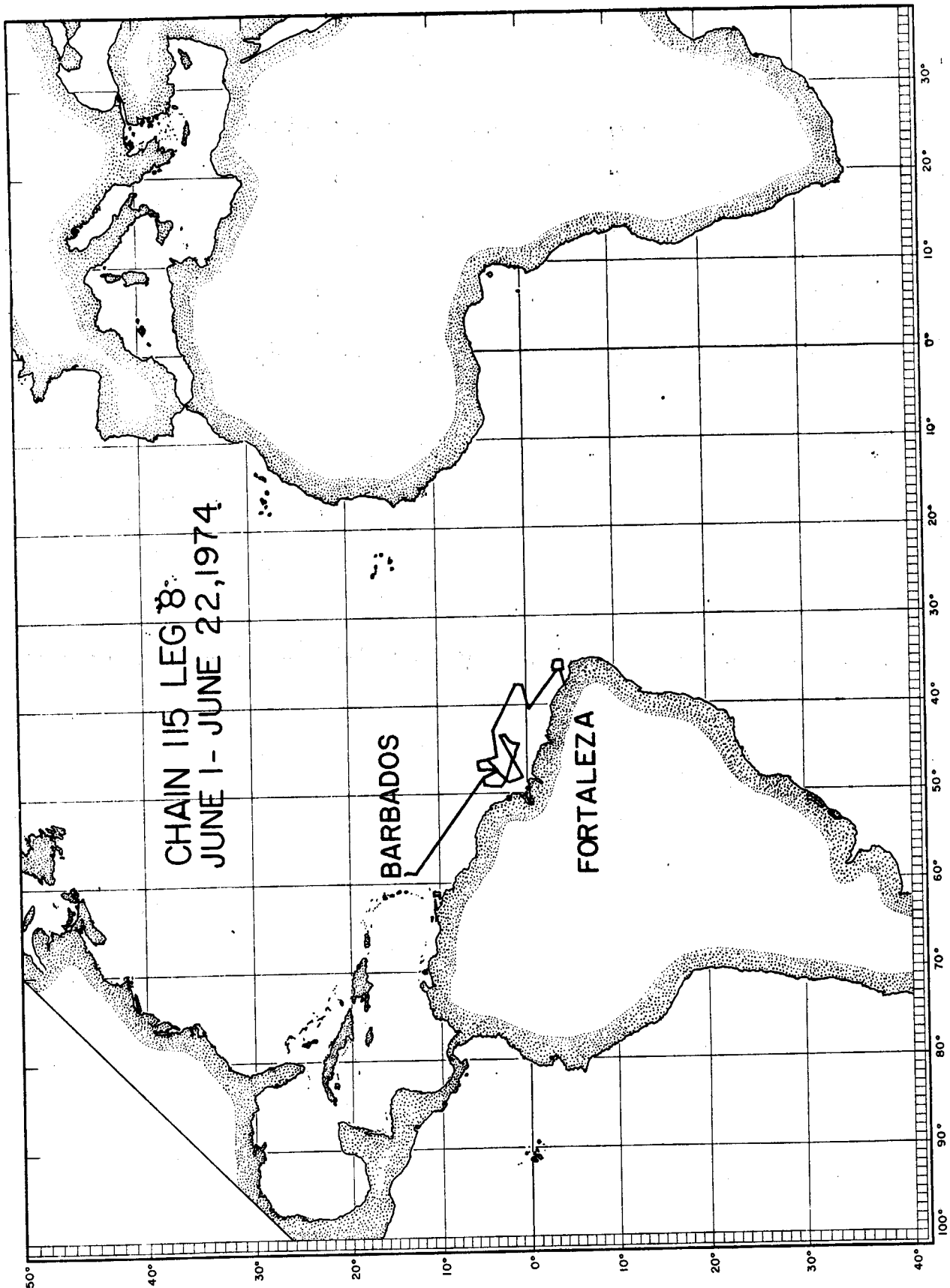
CRUISE CHAIN 100 STATION See below DREDGE DESCRIBED BY FARMER/BRODA DATE Jan. 79

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\*\*\*\*\*STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81\*\*\*\*\*  
\*\*\*\*\*PAGE 1  
\*\*WHOI\*\*

SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	COPE OR DREDGE	DEPTH	END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
CHN	115	4	0037	0000	8	74 225	54 35.9'S	0 58.1'W	9	480.40	0001	2522.	2328.	093K	14	0000	0		
CHN	115	4	0038	0000	8	74 227	55 20.2'S	1 42.6'W	9	480.51	0003	3509.	3419.	9.5K	14	0000	0		
CHN	115	4	0042	0000	8	74 3 4	55 22.5'S	2 1.9'W	9	480.52	0004	2540.	2461.	1.8K	15	0000	0		
CHN	115	4	0044	0000	8	74 3 6	54 40.2'S	0 1.2'W	9	480.40	0005	861.	818.	091K	16	0000	0		
CHN	115	4	0050	0000	8	74 3 8	54 13.7'S	4 3.1'E	9	515.44	0008	1806.	1938.	9.2K	19	0000	0		
CHN	115	6	0146	0000	8	74 511	30 12.8'S	39 21.5'W	1	411.09	0009	4789.	4139.	133K	13	0000	0		
CHN	115	7	0151	0000	8	74 524	8 5.8'S	33 54.5'W	1	303.83	0011	2052.	1774.	103K	4	0000	0		
CHN	115	7	0154	0000	8	74 528	4 43.5'S	35 2.0'W	1	303.45	0014	1085.	905.	5.9K	4	0000	0		
CHN	115	8	0155	0000	7	74 6 3	3 19.0'S	37 34.0'W	1	303.37	0015	285.	344.	030G	4	0000	0		
CHN	115	8	0156	0000	8	74 6 3	3 20.3'S	37 22.8'W	1	303.37	0016	806.	284.	6.6K	4	0000	0		
CHN	115	8	0157	0000	8	74 6 3	3 20.4'S	37 27.7'W	1	303.37	0017	266.	272.	043K	4	0000	0		

WHOI	ROCK	SAMPLE	DESCRIPTION
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CHAIN 115 STATION 37 DREDGE 1 DESCRIBED BY BRODA/FARMER DATE 28 Jan. 1979

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		CHAIN 115	STATION		see below	DREDGE	DESCRIBED BY		FARMER/BRODA	DATE		16 Feb. 1979
Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks	
STATION 42	DREDGE 4D											
	Granitic erratic	2.1K										
STATION 44	DREDGE 5D											
-2	Glassy basalt	.7	A		1% Pg.	10%	-	-	F	slight palagonite	vesicles vary widely in shape and size	
-3	Glassy basalt	1.5	A		tr Pg. laths	5%	-	-	F	"	very tiny vesicles	
-7	Basalt	.6	A		tr Pg.	30%	-	-	F	"	two major size groups of vesicles	
-6	Glassy basalt	.7	A		tr Pg.	20%	-	-	F	"	"	
-5	Glassy basalt	3.0	A		tr Pg.	25%	-	-	F	"	"	
-8	Basalt	.7	A		tr Pg.	25%	-	-	VF	"	vesicles occur in compact groups	
-10	Glassy basalt	.4	A		tr Pg.	20%	-	-	F	"		
-11	Glassy basalt	5.1	A		tr Pg.	20%	-	-	F	"	Pahoehoe, ropey glass rind	
-12	Glassy basalt	5.3	A		tr Pg. (laths)	30%	-	-	F	"	glassy lava tube, unique vesicular geometry of rind	
-30	Glassy basalt	1.9	A		tr Pg.	10%	-	-	F	"	Pahoehoe glassy margin	
-31	Glassy basalt	1.5	A		tr Pg.	20%	-	-	F	"	Pillow fragment	
-32	Glassy basalt	.8	A		tr Pg.	25%	-	-	F	"	-	
33	Glassy basalt	.8	A		tr Pg.	25%	-	-	F	"	-	
numbered & unnumbered	Basalt	68	A		tr Pg.	15%	-	-	F	"	-	



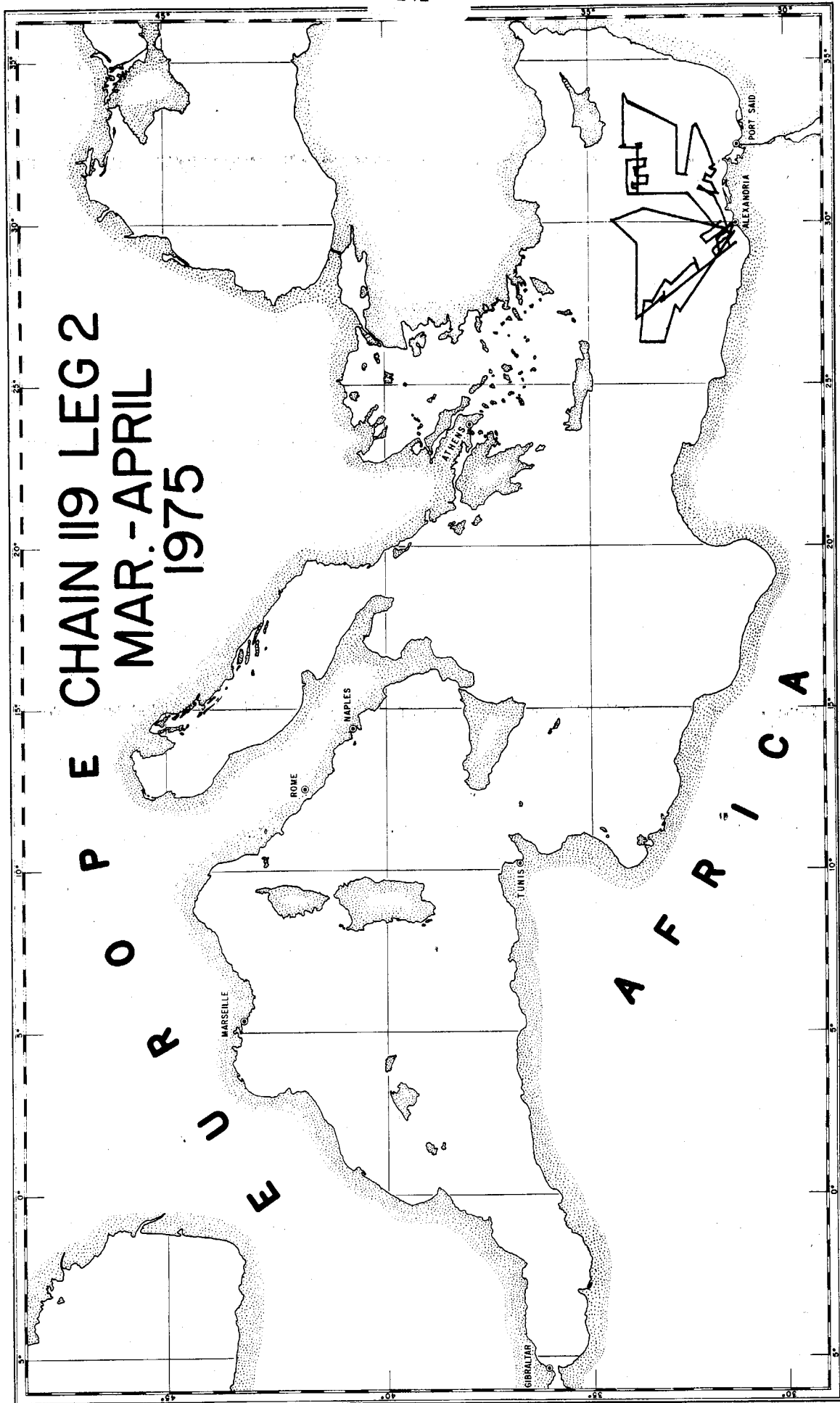
CRUISE CHAIN 115 STATION see below DREDGE DESCRIBED BY FARMER/BRODA DATE Feb. 1979

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WHOI	ROCK	SAMPLE	DESCRIPTION
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CHAIN 115  
CRUISE \_\_\_\_\_  
STATION see below \_\_\_\_\_  
DREDGE \_\_\_\_\_  
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FARMER/BRODA \_\_\_\_\_  
DATE Feb. 1979 \_\_\_\_\_

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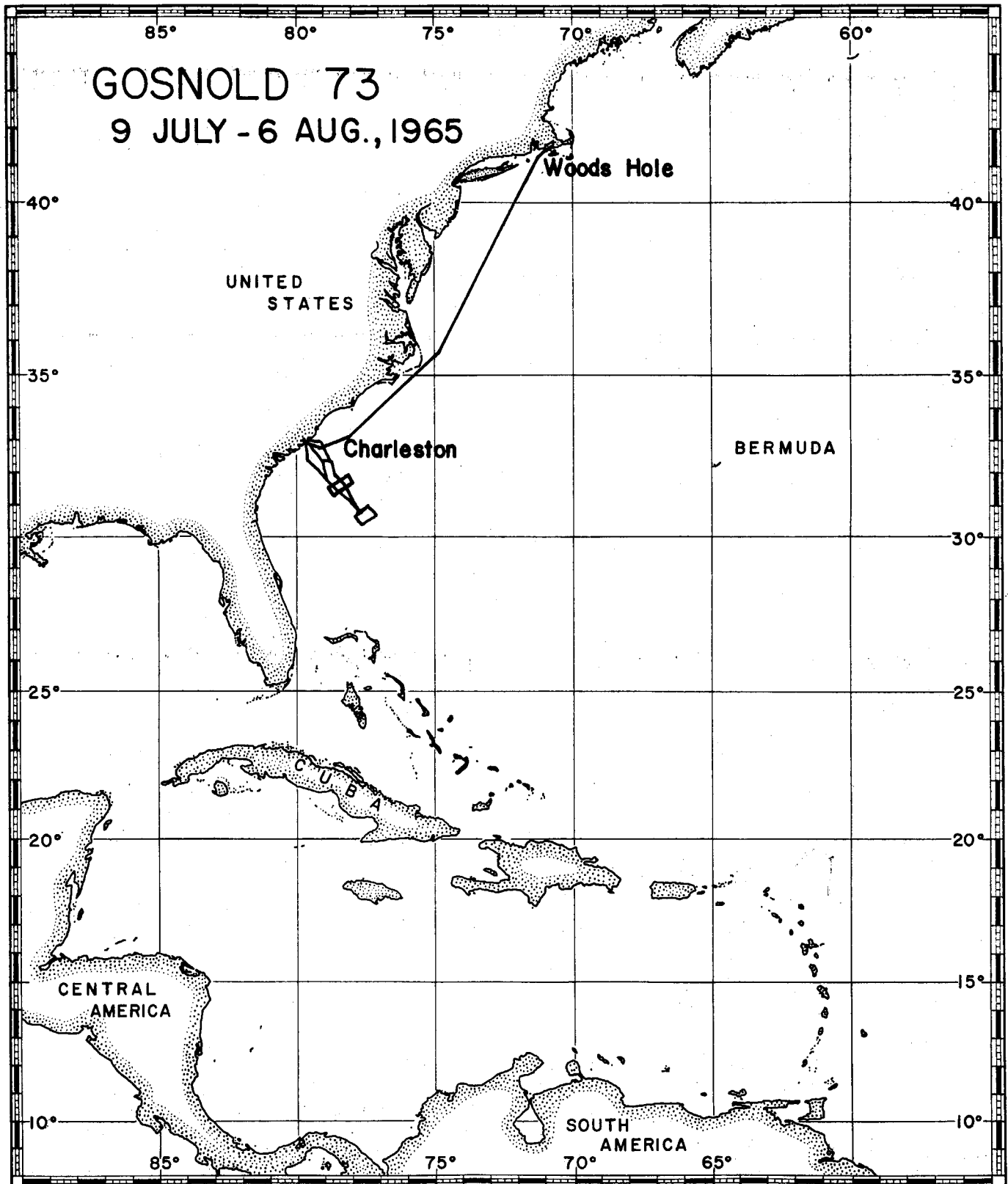
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	YR	MODA	LATITUDE	LONGITUDE	FIX	MARS- DEN	SQUAPE	CORE DP DRFDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	TYPE	CODE	REMARKS
CHN	119	2	0044	0000	8	75	328	31	41.2°N	30	30.3°E	1	141.10	0001	29.	33.	570G	24	0000	0			
CHN	119	2	0060	0000	8	75	329	31	36.9°N	30	7.0°E	3	141.10	0002	219.	63.	254G	25	0000	0			
CHN	119	2	0092	0000	8	75	4	2	31	40.7°N	30	41.3°E	3	141.10	0003	17.	425G	24	0000	0			
CHN	119	2	0105	0000	8	75	4	3	31	38.2°N	30	57.9°E	3	141.10	0004	6.	176G	24	0000	0			
CHN	119	2	0124	0000	8	75	4	5	33	46.1°N	32	42.1°E	9	141.32	0005	917.	1.5K	12	0000	0			
CHN	119	2	0181	0000	8	75	410	32	1.8°N	31	24.0°E	9	141.21	0008	97.	105.	025K	24	0000	0			

DATE Feb. 1979[illegible]





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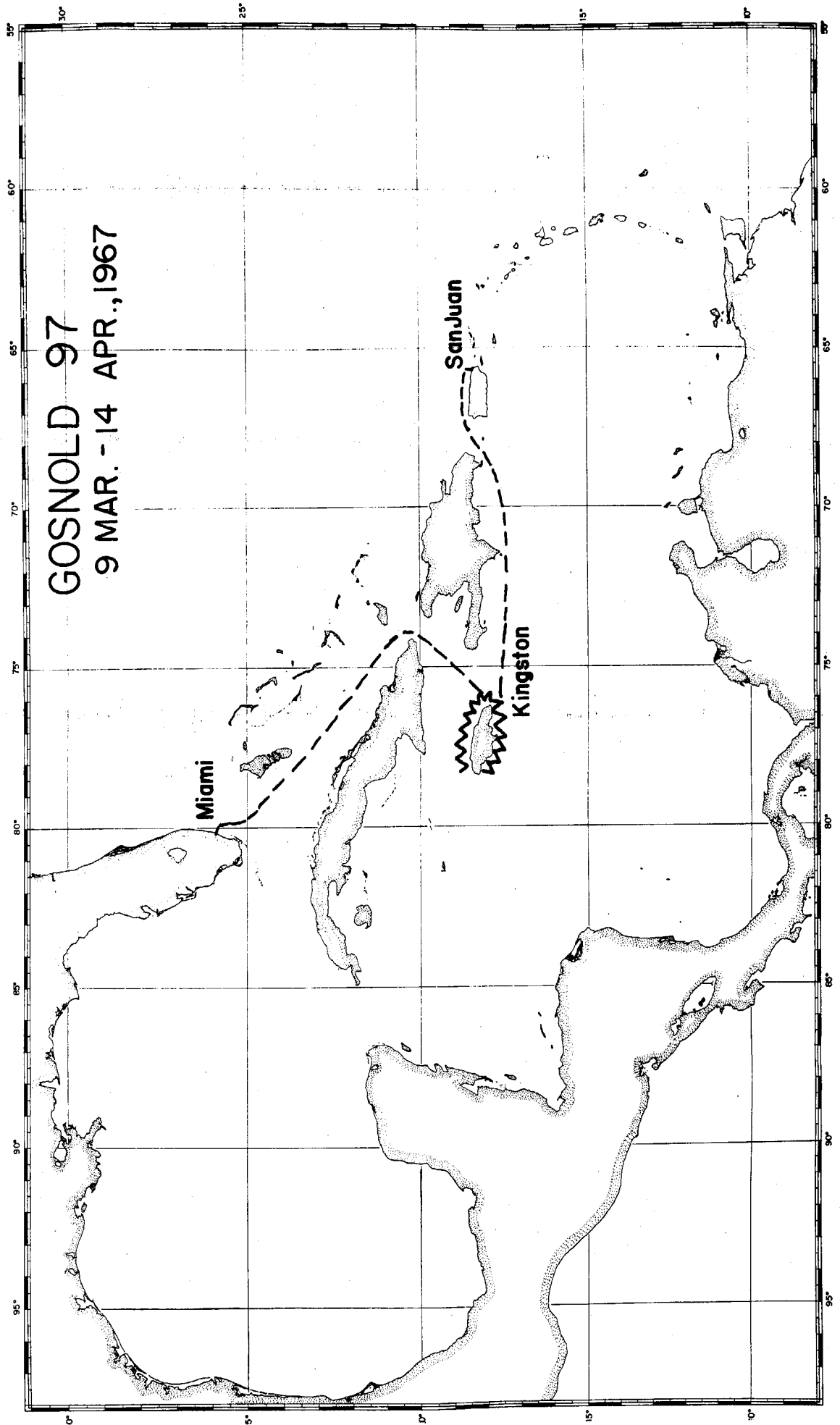
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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE	LATITUDE	LONGITUDE	FIX	MAPS- DEN	CORE OR DREDGE	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	REMARKS
GOS	73	1	0001	0000	7	65 713	33 10.0°N	78 20.0°W	5	116.38	0001	28.	0.	1.5K	7	0000	0	
GOS	73	1	0002	0000	7	65 718	30 13.0°N	78 37.6°W	5	116.08	0002	809.	0.	910G	7	0000	0	
GOS	73	1	0004	0000	7	65 718	30 15.2°N	78 39.5°W	5	116.08	0004	809.	0.	100G	7	0000	0	
GOS	73	1	0005	0000	7	65 718	30 14.8°N	78 39.6°W	5	116.08	0005	809.	0.	1.7K	7	0000	0	
GOS	73	1	0006	0000	7	65 718	30 15.8°N	78 41.7°W	5	116.08	0006	790.	0.	1.6K	7	0000	0	
GOS	73	1	0007	0000	7	65 719	30 41.5°N	78 52.6°W	5	116.08	0007	0.	0.	2.7K	7	0000	0	
GOS	73	1	0008	0000	7	65 719	30 38.7°N	78 51.5°W	5	116.08	0008	847.	0.	002K	7	0000	0	





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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR MODA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	CORE OR DREDGE NUMBER	DEPTH	CORE		DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA TYPE	CODE	REMARKS
													LENGTH OR END	DEPTH						
GNS	97	0	0006	0000	7	67 315	17 47.1°N	76 17.0°W	1	44.76	0006	738.	0.	450G	3	0000	0			
GNS	97	0	0016	0000	7	67 316	17 51.6°N	77 4.5°W	1	44.77	0016	10.	0.	450G	1	0000	0			
GNS	97	0	0018	0000	7	67 316	17 46.0°N	77 4.3°W	1	44.77	0018	20.	0.	500G	1	0000	0			
GNS	97	0	0020	0000	7	67 316	17 36.8°N	77 4.0°W	1	44.77	0020	25.	0.	567G	1	0000	0			
GNS	97	0	0021	0000	7	67 316	17 40.3°N	77 7.9°W	1	44.77	0021	0.	0.	254G	1	0000	0			
GNS	97	0	0024	0000	7	67 317	17 38.1°N	76 50.1°W	1	44.77	0024	0.	0.	925G	1	0000	0			
GNS	97	0	0026	0000	7	67 317	17 43.0°N	76 54.0°W	1	44.76	0026	0.	0.	450G	1	0000	0			
GNS	97	0	0030	0000	7	67 317	18 4.1°N	76 15.0°W	1	44.86	0030	698.	0.	908G	1	0000	0			
GNS	97	0	0033	0000	7	67 317	18 1.7°N	76 16.1°W	1	44.86	0033	322.	0.	450G	3	0000	0			
GNS	97	0	0038	0000	7	67 318	17 55.0°N	77 5.2°W	1	44.76	0038	460.	0.	790G	3	0000	0			
GNS	97	0	0042	0000	7	67 320	18 .5°N	77 57.1°W	1	44.87	0042	18.	0.	340G	1	0000	0			
GNS	97	0	0043	0000	7	67 321	18 .6°N	77 58.0°W	1	44.87	0043	42.	0.	001K	1	0000	0			
GNS	97	0	0044	0000	7	67 321	18 .5°N	77 59.1°W	1	44.87	0044	597.	0.	675G	3	0000	0			
GNS	97	0	0047	0000	7	67 321	17 55.5°N	77 52.4°W	1	44.77	0047	0.	0.	001K	3	0000	0	810 DREDGE		
GNS	97	0	0048	0000	7	67 321	17 52.5°N	77 50.0°W	1	44.77	0048	0.	0.	1.6K	3	0000	0	810 DREDGE		
GNS	97	0	0049	0000	7	67 321	17 52.1°N	77 48.1°W	1	44.77	0049	0.	0.	1.8K	3	0000	0	810 DREDGE		
GNS	97	0	0050	0000	7	67 321	17 49.8°N	77 45.0°W	1	44.77	0050	0.	0.	900G	3	0000	0	810 DREDGE		
GNS	97	0	0066	0000	7	67 322	17 50.0°N	77 39.8°W	1	44.77	0066	0.	0.	900G	3	0000	0	810 DREDGE		



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE GOSNOLD 97 STATION see below DREDGE            DESCRIBED BY            DATE           

Sample #	Lithology	Wt.	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
	<u>STATION No. 33</u>										
	Calc. ooze	.5		Brown calc. ooze with pteropods and shell fragments.							
	<u>STATION No. 38</u>										
	Calc. sand	.8		Coarse sand, coral and shell hash with large fine fraction of forams.							
	<u>STATION No. 42</u>										
	Calc. ooze	.3		Light gray and brown calc. ooze.							
	<u>STATION No. 43</u>										
	Calc. sand	1.0		Fine carbonate sand composed of shell fragments, pteropods and crushed forams.							
	<u>STATION No. 44</u>										
	Calc. ooze	.6		Gray-brown calc. ooze.							
	<u>STATION No. 47</u>										
	Calc. clay	1.0		Gray, silty, highly calc. clay.							
	<u>STATION No. 48</u>										
	Calc. clay	1.5		Gray slick calc. clay							
	<u>STATION No. 49</u>										
	Calc. clay	1.8		Gray calc. clay							
	<u>STATION No. 50</u>										
	Calc. clay	1.0		Gray calc. clay.							

GOSNOLD 97

**CRUISE** GOSNOLD 97

see below

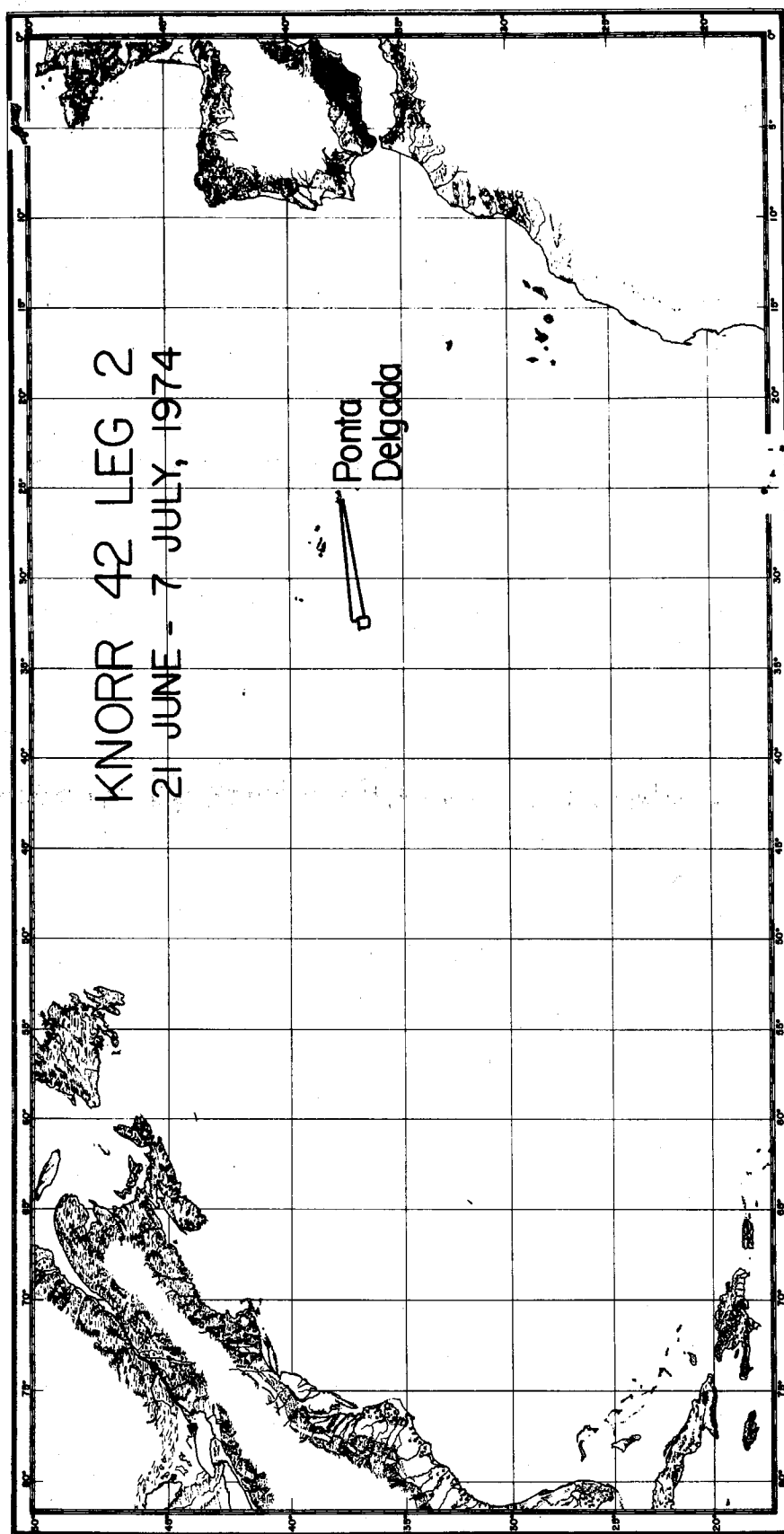
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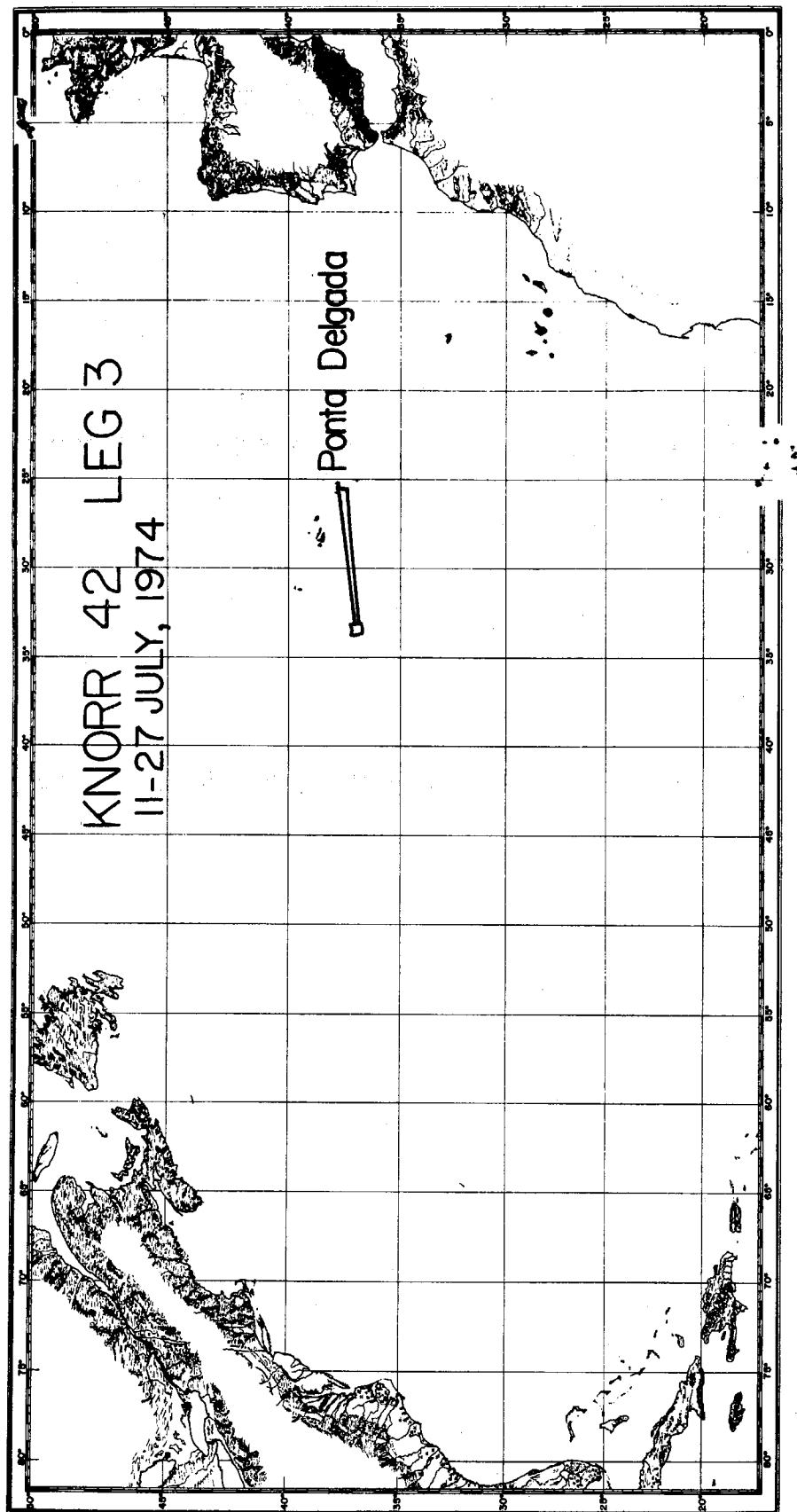
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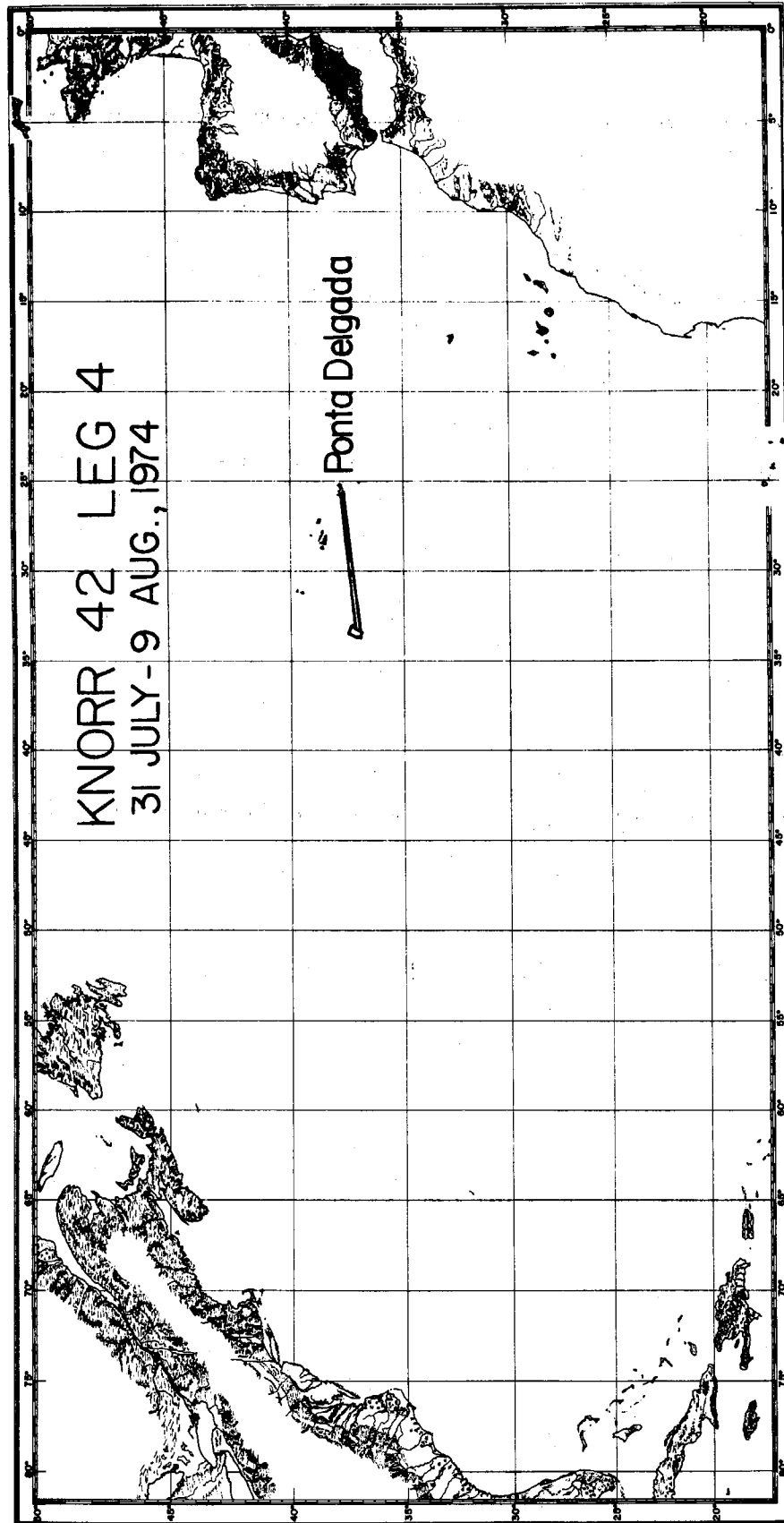
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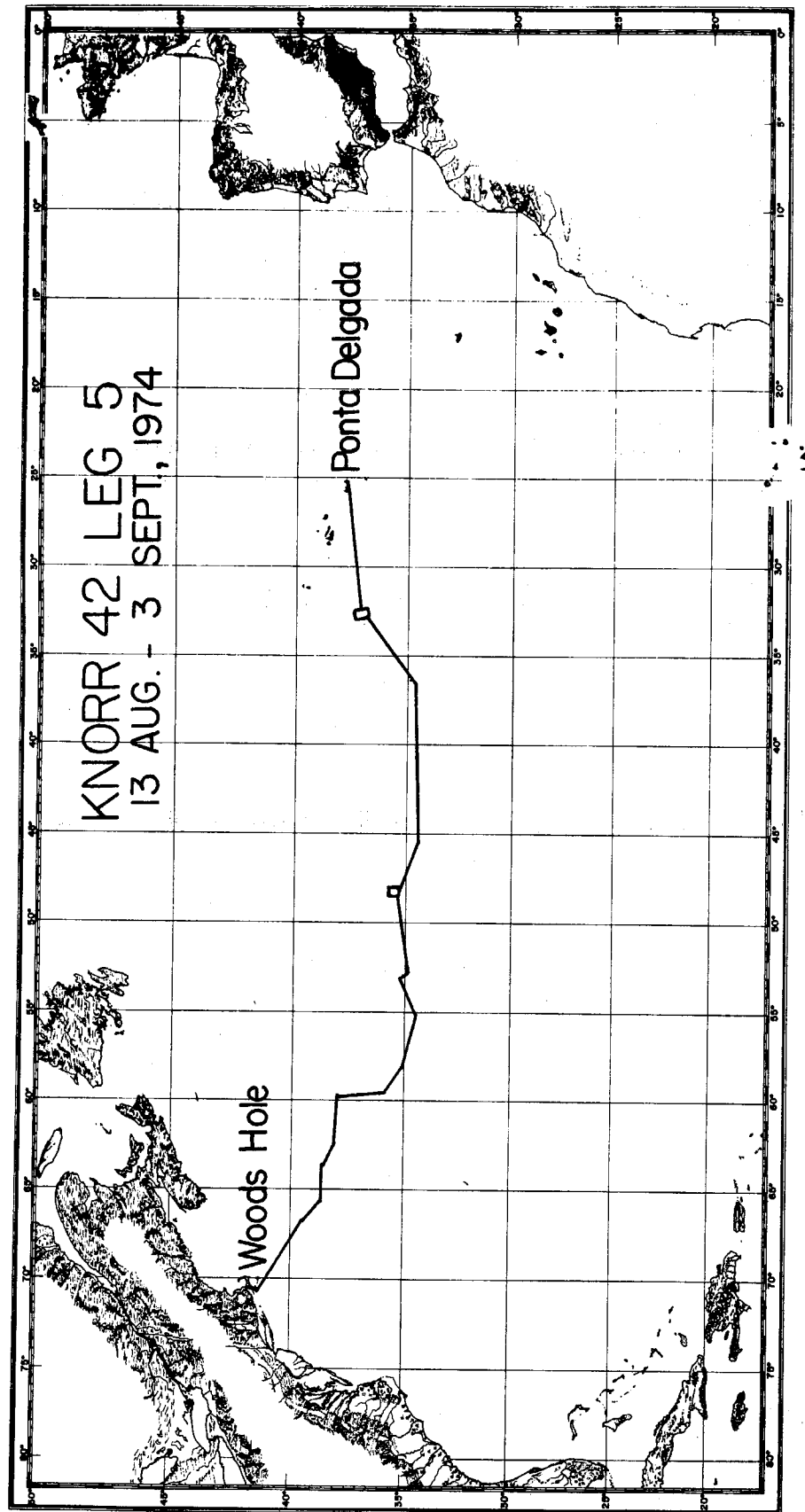
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STATION DATA RETRIEVAL  
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SHIP	CRUISE	LEG	STATION	DE- VICE	DATE	YR	MODA	LATITUDE	LONGITUDE	FIX	MARS- DEN	CORE OR DREDGE	DEPTH	CORE OR FNC	DREDGE OR SAMPLE	WEIGHT	PROV.	PHYSIO- GRAPHIC	SED. VITA	ROCK OR	REMARKS	
KNR	42	2	0025	8	74	629	36	56.7°N	33	9.1°W	9	112.63	0003	2993.	2963.	1.6K	19		0000	0		
KNR	42	2	0028	8	74	630	36	54.9°N	33	9.8°W	9	112.63	0004	2889.	2608.	041K	19		0000	0		
KNR	42	2	0033	8	74	7	36	57.0°N	33	7.9°W	9	112.63	0005	2908.	2533.	007K	19		0000	0		
KNR	42	2	0035	8	74	7	36	56.4°N	33	8.1°W	9	112.63	0006	3041.	2685.	3.5K	19		0000	0		
KNR	42	3	0051	8	74	715	36	36.1°N	33	24.8°W	9	112.63	0008	2599.	2174.	065K	19		0000	0		
KNR	42	3	0068	8	74	717	36	50.8°N	33	23.3°W	9	112.63	0009	1564.	1465.	015K	19		0000	0		
KNR	42	3	0077	8	74	718	36	36.9°N	33	27.6°W	9	112.63	0011	2137.	1763.	169K	19		0000	0		
KNR	42	3	0086	8	74	719	36	38.4°N	33	19.5°W	9	112.63	0012	2901.	2740.	178K	16		0000	0		
KNR	42	3	0102	8	74	722	36	50.8°N	33	19.7°W	9	112.63	0016	1603.	0.	005K	14		0000	0		
KNR	42	3	0108	8	74	723	36	50.6°N	33	21.4°W	9	112.63	0017	1763.	1762.	014K	14		0000	0		
KNR	42	3	0110	8	74	724	36	53.2°N	33	32.1°W	9	112.63	0018	1727.	1347.	2.4K	14		0000	0		
KNR	42	3	0112	8	74	724	36	52.8°N	33	31.7°W	9	112.63	0019	1623.	1732.	0.5K	14		0000	0		
KNR	42	3	0117	8	74	725	36	47.9°N	33	13.7°W	9	112.63	0020	1679.	1648.	1.8K	14		0000	0		
KNR	42	4	0121	8	74	8	36	37.5°N	33	28.1°W	9	112.63	0021	1838.	1801.	131K	19		0000	0		
KNR	42	4	0122	8	74	8	36	37.3°N	33	28.0°W	9	112.63	0022	1932.	1857.	064K	19		0000	0		
KNR	42	4	0129	8	74	8	36	36.4°N	33	28.5°W	9	112.63	0024	2118.	2025.	075K	19		0000	0		
KNR	42	4	0130	8	74	8	4	36	34.9°N	33	27.2°W	9	112.63	0025	2104.	2102.	073K	19		0000	0	
KNR	42	4	0131	8	74	8	4	36	36.4°N	33	29.3°W	9	112.63	0026	2062.	2034.	019K	19		0000	0	
KNR	42	4	0137	8	74	8	5	36	50.9°N	33	32.5°W	9	112.63	0027	1353.	1293.	069K	14		0000	0	
KNR	42	4	0145	8	74	8	6	36	33.4°N	33	28.2°W	9	112.63	0029	2141.	2161.	075K	19		0000	0	
KNR	42	4	0146	8	74	8	6	36	31.9°N	33	29.4°W	9	112.63	0030	2108.	1875.	172K	19		0000	0	
KNR	42	5	0156	8	74	816	36	50.8°N	33	32.2°W	9	112.63	0031	1587.	1279.	012K	14		0000	0		
KNR	42	5	0161	8	74	824	34	48.6°N	57	13.4°W	9	114.47	0033	3310.	3084.	007K	12		0000	0		
KNR	42	5	0162	8	74	824	34	53.3°N	57	11.2°W	9	114.47	0034	2706.	2436.	005K	12		0000	0		
KNR	42	5	0166	8	74	825	35	36.3°N	58	41.4°W	6	114.58	0036	4227.	3805.	5.2K	12		0000	0		
KNR	42	5	0168	8	74	826	36	31.6°N	59	25.7°W	9	114.69	0037	4025.	3796.	1.2K	12		0000	0		
KNR	42	5	0171	8	74	827	37	30.6°N	59	52.2°W	6	114.79	0039	1523.	1260.	143K	12		0000	0		
KNR	42	5	0174	8	74	828	38	11.3°N	60	56.6°W	6	115.80	0040	3777.	3653.	250G	12		0000	0		
KNR	42	5	0177	8	74	830	39	29.6°N	65	24.1°W	6	115.95	0041	2798.	1887.	100G	12		0000	0		
KNR	42	5	0178	8	74	830	39	27.0°N	65	27.3°W	6	115.95	0042	2240.	2531.	012K	12		0000	0		
KNR	42	5	0180	8	74	831	39	50.2°N	66	12.6°W	6	115.96	0043	2354.	1885.	021K	12		0000	0		
KNR	42	5	0181	8	74	831	39	51.0°N	66	52.8°W	6	115.96	0044	2825.	1885.	002K	12		0000	0		
KNR	42	5	0182	8	74	9	1	39	23.6°N	67	14.0°W	6	115.97	0045	3040.	3095.	100G	12		0000	0	



WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNORR 42 STATION see below DREDGE            DESCRIBED BY FARMER/BRODA DATE 3/28/78

[illegible]

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## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION 77 DREDGE 11 DESCRIBED BY FARMER/BRODA DATE 3/30/78

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
111, 125, 132	Palagonite breccia	kg 10	C	Aphanitic & variolitic basalt subangular frags				tr	LM	Palagonite/slightly calc cement	
203	Palagonite rind	50g	C		50% Pg (medium)			.1	M		
58, 59, 69, 115, 126, 167	Basalt	5	A			1-4%	tr	.2	L		
56	Basalt	.5	A		tr Pg	1-4%		.2	L	Thick palagonite	- Variolitic
150	Basalt	5.8	A			tr		.4	M		Incipient crystallization
15, 18, 122, 137, 141, 176	Basalt	13	A		tr Pg	1%		.3	F		
175	Basalt	2.7	A		tr Pg, px, ol	1%		.5	L		Blocky jointed
42, 65, 68, 70, 127, 130, 135	Basalt	14	A		tr Pg	1%		.2	L	Some with minor palagonite	
145, 156, 177	Basalt	1.0	A		tr Pg	1%	1%	.2	L	Minor palagonite crust	
54	Basalt	.6	A		tr Pg	1%	1%	.3	L		
16, 70, 169	Basalt	3.0	A		tr Pg, tr Ol	1%		.5	L	#16 very weathered surface slightly variolitic	
170	Basalt	.3	A		tr Pg?	1%	.5%	tr	LM		Varolitic, very heavily weathered rind
37, 39, 47, 157, 172	Basalt	3.5	A		tr Pg	3-7%	tr	.1	L	#39 has thicker Mn	
61	Basalt	.3	A		5% Ol, 5% Pg	25%	1-2%	.1	L		
153	Basalt	1.4	A			1%		.2-4	L		Jointed
44	Basalt	1.4	A		tr Pg	1%	.5%	.2-1.5	L	Minor palagonite breccia	
154	Basalt	1	A			1%		.1	LM	Varolitic	
132	Basalt	.3	A		tr Pg	3%	tr	.1	L	Leftover palagonite	

## WHOI ROCK SAMPLE DESCRIPTION

 CRUISE KNORR 42 STATION 77 DREDGE 11 DESCRIBED BY FARMER/BRODA DATE 3/30/78

Sample #	Lithology	Wt. kg	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
50,166	Basalt	.5	A		1% O1	1%	tr	.1	L	Leftover palagonite	
124	Basalt	.6	A		tr Pg	tr		.2	L		
17a	Basalt	1.6	A		tr Pg			1	L		Worm tubes
16a,b	Basalt	1	A			2%	tr	.2	L		
7	Basalt	.7	A					.2	M		
53	Basalt	.1	A			tr		.1	VH	Considerable palagonite	Variolitic
135,142	Basalt	5	A			tr		.1	L		
178	Basalt	3.2	A			tr		.2	L		
38	Basalt	.1	A		tr O1	5%	tr	.2	VH	Heavily weathered palagonite rind	Variolitic
45,52,125	Basalt	.6	A			1-2%		.2	M	Minor palagonite rind	
57	Basalt	.5	A		tr Pg	2	tr	.1-5	MH	Mn breccia on surface	
171	Basalt	.1	A		tr O1	1%	tr	.2	M		
51	Basalt	.4	A			8%	1%	1-2	L		
147	Basalt	5.2	F					.2	L-M		
40	Basalt	.5	F		tr O1	tr		.2	L		
19	Basalt	.2	A			1%		.5-1	LM		
30	"	.7	A			2-3%	tr	.2	LH	Palagonite & minor glass rind	Highly variolitic
28	"	.6				tr			F	Thick palagonite breccia	

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION 77 DREDGE \_\_\_\_\_ DESCRIBED BY BRODA/FARMER DATE 3/30/78

Sample #	Lithology	Wt. kg	G.S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
20	Basalt	.1	A			1%			LH		Variolitic
32	Basalt	.3	A		tr ?			.2	H		Virtually all large weathered varioles
29	Basalt	.3	A		tr Pg 01	6%			F	Minor palagonite	
35A	Olivine basalt	1	A					tr	M		
23	"	.1	F						MH		
63	Basalt	.2	A		Pg? 01?	1%	.5%	.1	L		Rusty olivines?
62,46	Basalt	.6	F					.2	M	Indurated CaCO <sub>3</sub> breccia	" "
128	"	1	F	Rusty 01 matrix				.1	H		Granular texture
8	"	.3	F			10%	2%	.4	M		
151	"	2.7	A-F			tr		1-2	M		Worm tubes
5,10,26,139,140	Basalt	4	F-M	Pg needles 01 matrix weathered		tr		tr	MH		
24	Basalt	.4	A-F			4%	2%	.1	H		Highly variolitic
12	Basalt	23.6	A-F	Pg needles		tr	*	.2-2	M	*Numerous rusty brown spots - here called amygdules-highly variolitic & weathered	
2	"	5.2	A					.2	H		
116,123,43,67,133	Basalt? dk greenstone	1.3	A					.1-.5	H	Very altered basalt?	
168,83	"	1.8	A					.2-.5	H	Similar to above, but with variolitic character	
	Chalk	12.5		Lithified lumps of fine-frained calcareous poze, extensive burrowing and varied Mn encrustation.							

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNORR 42 STATION 77 DREDGE 11 DESCRIBED BY BRODA/FARMER DATE 3/30/78

[illegible]

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION 86 DREDGE 12 DESCRIBED BY BRODA/FARMER DATE 3/31/78

Sample #	Lithology	Wt. kg	G.S.	Mineralogy	Phenocrysts	Ve	Am mm	We	Alteration	Remarks
2	Pillow basalt	23	A		2-4% Pg	3-5%	.1	VF	Extensive palagonite and glass rind	
3	"	23	A		"	"	"	"	"	
4	"	19	A		5% Pg	5-7%	"	"	"	
7	Basalt lava tube	7.5	A		10% Pg in center tr 01	3-5%	.2	VF	"	Tube frags with pheno zoned toward central cavity
52	"	4.	A		"	"	"	"	"	Vuggy stalagmite texture in chamber
8	Pillow basalt	7.	A		2-4% Pg	"	"	"	"	block with central cavity
9	"	7.	A		"	"	"	"	"	
10	"	3.5	A		"	"	"	"	"	Indication of central cavity
11	"	2.0	A		1-3% Pg	"	"	"	"	Blocky
12	"	1.0	A		"	6%	"	"	"	Nice cap
13	"	3.	A		2-4% Pg	"	tr	"	"	
14	"	3.	A		"	"	"	"	"	
15	"	5.	A		"	"	"	"	"	
16	"	3.	A		1-3% Pg	"	"	"	"	
17	"	6.	A		tr 01, 5-6% Pg	1-2%	.2	F	"	
18	"	2.0	A		1% Pg	3%	"	VF	"	
19	"	2.0	A		2-4% Pg	3%	"	VF	"	
20	"	1.5	A		"	1-2%	"	"	"	



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION see below DREDGE DESCRIBED BY BRODA/FARMER DATE 22 May 78

Sample #	Lithology	Wt. <u>kg.</u>	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
	<u>STATION 108</u>							<u>mm</u>			
1	Basalt	5	A			tr-1%		1-3	LM	Thick palagonite rind	
2	Basalt	6	A			1%		1-2.5	M	Palagonite rind w/some fresh glass	Coral holdfasts
3	"	.3	A			1%		.1	L	"	
4	"	.7	A		tr Pg	2%		1	LM	Glass replaced by palagonite	
5	"	.5	A			1%		1-3	M	Trace of palagonite rind	
6	Limestone	.1		Indurated Mn-encrusted calc	ooze						
Unnumbered	Basalt	.9	A		tr Pg	tr-1%		1-2	M	Small amounts of palagonite	
	<u>STATION 110</u>										
1	Basalt	.9			15-20% medium sized Pg+ Ol	4%		2-4	L		
2	Limestone	.4		Indurated lithified & burrowed calc	ooze (chalk)			1			
3	"	1.0		"	"			1			
	<u>STATION 112</u>										
1	Clinker coal	.3									
	<u>STATION 117</u>										
1	Basalt	1.	A		25% mostly Pg 5% Ol, 1% Px	2-3%		1	L		
	Basalt	.2	A		30-35% mostly Pg w/small amts Ol & Px	5%		1	L		
	Coral	.1						1			







## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42				STATION 122		DREDGE		DESCRIBED BY		FARMER		DATE 5/23/78	
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks		
1	Basalt	kg .2	A		1% Pg	1%		.2- .5	M	Thick shattered bisects rock	palagonite vein		
81	Basalt	1.8	A			1%	tr	.5- 1	M-H		Small amount indurated chalk		
79	"	1.0	A		2% Ol, micro 3% very small	1%		"	"		Olivine well weathered		
78	"	.7	A		mostly Ol, somePg	"		"	"	Minor, very weathered palagonite	"		
71, 72, 80	"	.9	A		Ol microphenos weathered	tr		.3- .5	"	#80 variolitic	"		
5	"	.1	A		tr Pg, 5% Ol (med)	7%		.1			"		
73	Basalt	.4	A			"		.2	M-H				
91	"	.2	A			"	3%	.5- 1			Large vesicles		
3	Greenstone	.2	A				tr?	"	M				
6	"	.1	A				1%	.2- .5	M		large 1st chunk over Mn - varioles?		
7	Glassy basalt	.1	A			1%		.2	L	Very weathered palagonite rim	Lithified chalk on surface - variolitic		
75	Basalt	.2	A					"	M		Lithified chalk on surface		
	Olivine basalts	.8	A		2-4% Ol, very small	1-2%		.2	MH		Very similar to weathered Olivine basalts above		
	Basalts	1.9								Unslabbed, similar to rest of dredge			
2, 4	Basalt	.3	F	Pg laths (#2)				.1	M	Rusty			
74	Limestone	.1						.1					
		37	A	Semi-indurated, burrowed chalk		with minor (.1 mm) Mn coating (where present)							

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION 129 DREDGE FARMER/BRODA DESCRIBED BY DATE 5/24/78

Sample #	Lithology	Wt. kg.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
58 & 59	Coral	.7		Branching coral with thin Mn skin							
56 & 57	Marl	2.3		Semi-indurated, burrowed calc sediment						with thin Mn over small areas (where not rubbed off)	
4.5, 30, 33	Limestone	1.2		Up to .3 mm Mn in protected spots							
6	"	.8		Hard, but fractured, irregular shaped shattered Mn(?) high quality, dense Mn							
42	Limestone	.8		Primarily limestone, one large piece of clinker coal also!!							
17, 19, 31, 40, 46	basalt breccia	4.6		Rounded cobbles of basalt cemented with considerable amount of limestone. Numerous corals on rim, Mn up to 1 mm thick in places, UNSLABBED							
39	Limestone conglomerate	5.7		No CaCO <sub>3</sub> except coral holdfasts, basalts are very weathered Mn is impressive, thick and dense							
49	Basalt-Mn breccia	.3				tr					
7	Basalt, diabase	.6	A								
10	Limestone breccia	2.7	A		weathered micro's						
9	Glassy basalt	1.4	A								
18	Basalt	5.1	A								
14	"	3.9	A								
16	"	1.7	A								
3, 12, 13	"	15	A								
1	"	8.5	A								
15	"	5.2	F								
22	Glassy basalt	.1	A								

Spherical basalt with thick Palagonite rind

Glass & palagonite rind

Concentric weathering pattern

Palagonite & glass rind

Pillow keystone (#12) has great fracture controlled weathering; elegant Mn rind.

Variolitic



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION 130 DREDGE BRODA/FARMER DESCRIBED BY DATE 5/30/78

Sample #	Lithology	Wt. kg. 24.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
	Limestone			Burrowed lithified chalk & limestone				.1		Numbered and samples	unnumbered
2	basalt	21.	F		2% Pg weathered micros	3%		.5	LM		Limestone breccia covers 30%
2A+B	"	.9	A		1% Pg	tr		.1	L		Different rock from #2 above
1	Breccia	.3	A					.2	MH	Generally nearly weathered basalt & glass frags in limestone matrix	
8	Glassy basalt	.2	A		7% Pg, tr Ol	7	S	.1	L	Well developed palagonite on surface	
7	"	.1	A		7% Pg	3		.1	M	Palagonite rind covers exp. sur.	Limestone over over palag.
9	Basalt	.7	A-F		3% Pg weathered micros	tr		.1	M		Limestone on 30% of surface
10	Basalt	.3	A		1% Pg, 1% Ol	1%		.1	M		
11	Basalt	.5	A		1% Pg	1%		"	M		Limestone on 30% of surface
13	Basalt	.3	A		tr Pg	1%	S	"	M		
12	Basalt	1.5	A		3% Pg, 4% Ol	2%	S	"	LM		
14	Glassy basalt	.2	A		3% Pg	tr			MH	Limestone over palagonite rind	
17	Basalt	.2	A		1% Pg			tr	M	50% covered by limestone-basalt breccia	
18	"	.8	A		8% Pg, tr Ol	7%	S	tr	LM	Palagonite on 20%	
19	"	.2	A		Tr Pg	2%	S	.1	H		Limestone over 30%
21	"	.1	A		1% Pg, tr Ol	Tr		"	M		Lithified chalk on 20%
28	"	.1	A		8% Pg, tr Ol	5%		.2	LM		
30	"	2.0	F		weathered microphenos	tr	S	.1	M		Limestone - basalt breccia over 25%

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 42 STATION 131 DREDGE DESCRIBED BY FARMER DATE 5/23/78

Sample #	Lithology	Wt. kg	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
	Coral	2		Thick stemmed	branching coral					.1mm Mn	
12	Basalt breccia	1.0	A			1%		tr	M	Extensive palagonite rim	Angular gravel fragments in palagonite cement
24	"	.3	A	Varioles in one portion		tr		.1	M	80% of rock is weathered palagonite	(non-calc) " " "
7, 19	"	.2	A			1%			M	50% palagonite	" " "
39	"	.1	A	Unslabbed but similar to above							
48	"	.2	A			tr		.1	M		Chalk cement no palagonite
28	Basalt	3	A			1%		.1-1	L		
50	"	1.4	A			2%		tr	L	Palagonite covers entire surface	Coral holdfasts
30	"	.4	A			1%		.2	L		
37	"	.45	A			2%		.5	L	Peculiar rim on 2 sides-seems to be very weathered basalt but has very sharp contact with fresher rock	
47	Greenstone	.1	A					tr	L		
46	Greenstone	.1	A					tr	L		
21, 22, 35, 40, 42, 45	"	.8	A					tr	LM		
41, 44	Basalt	.3	A			3%		tr	L	Palagonite over most of rim	
18, 18, 34	Basalt	.3	A			3%		.1	M	"	Varioles
33	"	.3	A			tr		2-3	M		Minor lithified chalk
A3	"	.3	A			2%		.5	LM		
11	"	2	A			tr		.2-.4	M		

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNORR 42 STATION 131 DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_ FARMER \_\_\_\_\_

DATE 5/23/81

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CRUISE KNR 42 STATION 137 DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_  
FARMER

CRUISE KNR 42 STATION 137 DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_  
FARMER

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CRUISE KNR 42 STATION 137 DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_  
FARMER

[illegible]

## WHOI ROCK SAMPLE DESCRIPTION

 CRUISE KNORR 42 STATION 145 DREDGE FARMER DESCRIBED BY DATE 5/25/78

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
2	Basalt	kg 1.5	A		Pg, ol microphen	1%		.15	M		
3	Basalt	1.0	A		Pg 2%	1%	S	.1	M		
4	Basalt	.7	A		7% Pg, 7% Ol	2%			L	Limestone basalt encases rock	
5	Basalt	.7	A		5% Pg, tr Ol	3%		.1	M		
6	"	.1	A			1%	S	tr	M		Filled vesicles
7	"	.7	A-F		Rare Pg			.5	M		
8	"	3.3	A		Ol, 2% Pg Rare	tr		.5	L-M		
9	"	.1	A			3%		.1	H		
11	"	.1	A		10% Pg, px? 5% Ol	4%		.1	F		All phenocrysts intergrown
12	"	.5	A		7% Ol, 7% Pg	4%		.1	F		Minor limestone
13	"	.1	A		1% Pg	2%		.1	L		
14	"	.1	A		5% Pg, 5% Ol	2%		.1	M		
15	"	.2	A		2% Pg	2%		.1	L		
17	"	.2	A		Pg, sparse	1%		.1	L		
18	"	.3	A		2% Pg	2%		.3	M		
19, 23, 26, 28	Limestone basalt breccia	.9	A		#23 has glassy Pg basalt			.5	M		
1	Basalt	.1	A		tr Ol, Pg	2%		tr	M-H		Vesicles in basalts
20	Basalt	.2	A		7% Pg, Ol 2%	2%		.1	M-H		1 mm limestone



WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNORR 42 STATION 146 DREDGE \_\_\_\_\_ DESCRIBED BY \_\_\_\_\_ FARMER \_\_\_\_\_ DATE 1/20/80

Sample #	Lithology	Wt. kg	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn mm	We	Alteration	Remarks
6	Pg Basalt	2.2	A		40% Pg, 3% O1	1%	tr	2	M-H		Felsic
10	Greenstone breccia	15	A						L		Quartz veins
12	Greenstone	.1	A						L		Calcite & epidote veins
9	Greenstone breccia	10	A						L		Carbonate veins
66	Basalt	.4	A		5% Pg, Px? 4% O1	5%		tr	L		
68	"	.4	A		15% Pg, 5% O1	1%		tr	M-H		Felsic
69	"	.4	A		15% Pg, 5% O1	12%		tr	L		
70	"	.6	A		5% Pg, 3% O1	2%		tr	L		
73	Greenstone	1.1	A		?				L		Altered phenocrysts
74	Basalt	1.7	A		5% Pg, 3% O1	4%	tr	L	L	Palagonite rim	
75	Greenstone	1.0	A					L	M	Spherulitic	
76	"	.2	A					L	M	"	
77	Basalt	.3	A		10% Pg, 5% O1	10%		L	L		
80	Greenstone	.3	A		1 Pg phenocryst			L	L	Spherulitic	
82	Greenstone	.4	A					L	L		
83	Basalt	.1	A		5% Pg	10%	S	L	L		CaCO <sub>3</sub>
84	Greenstone	.8	A					L	L	Calcitic veins	& spherulitic



WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE	KNORR 42	STATION	DREDGE	DESCRIBED BY
		146		FARMER

DATE 1/20/80[illegible]

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CRUISE KNORR 42 STATION 156 DREDGE 31 DESCRIBED BY FARMER DATE May 23, 1938

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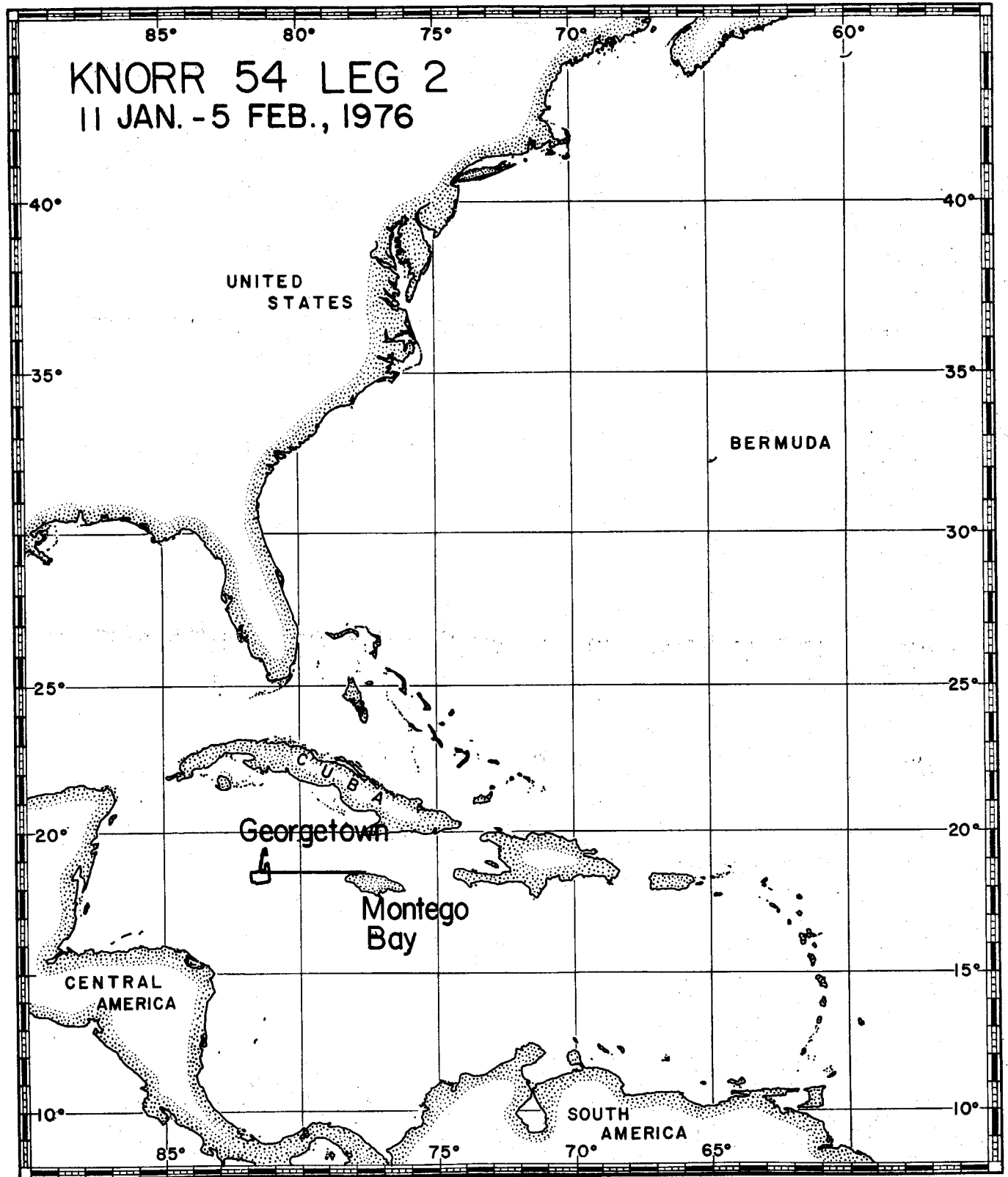
CRUISE KNORR 42 STATION see below DREDGE see below DESCRIBED BY FARMER DATE 5/23/78

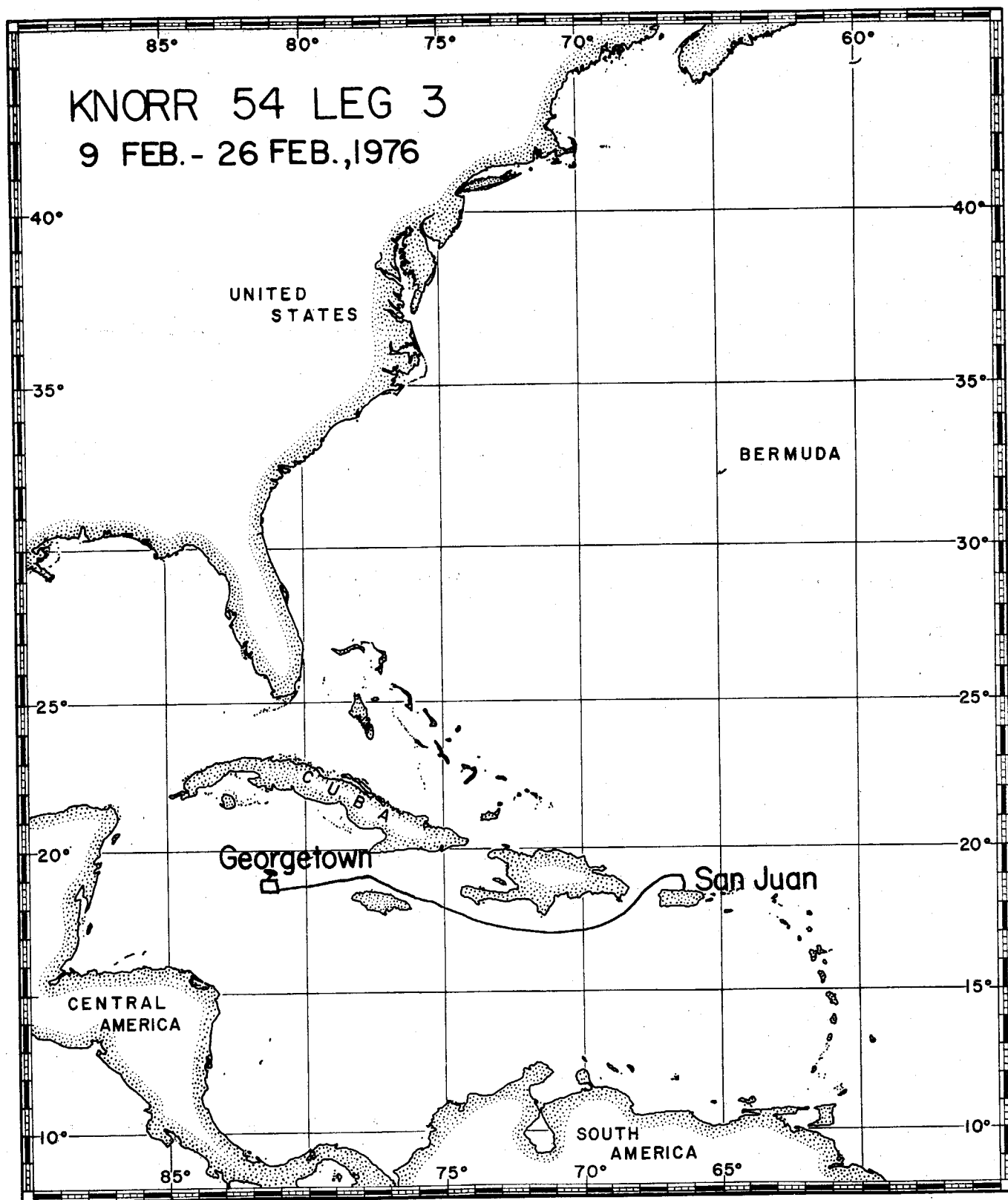
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STATION DATA RETRIEVAL  
DATE: 08:52 SEP 21, '81

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SHIP	CRUISE	LEG	STATION	SAMPLE NUMBER	DE- VICE	DATE YR/MO/DA	LATITUDE	LONGITUDE	FIX TYPE	MARS- DEN	CORE OR DREDGE	DEPTH	OR END	CORE LENGTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED.	VITA	REMARKS
KNR	54	2	0002	0000	8	76 115	18	2.6°N	81 43.1°W	9	44.81 0000	4795. 4824.		089K	17	0000	0		
				**COMMENTS**				ANGUS	CAMERA	FRAME	RECOVERED	THIS BASALT							
KNR	54	2	0011	0000	8	76 118	18	.1°N	81 36.8°W	9	44.81 0003	2855. 2597.		042K	17	0000	0		
KNR	54	2	0012	0000	8	76 119	18	3.6°N	81 37.3°W	9	44.81 0004	3484. 3728.		016K	17	0000	0		
KNR	54	2	0013	0000	8	76 119	18	5.9°N	81 42.2°W	9	44.81 0005	4514. 4619.			17	0000	0		
KNR	54	2	0014	0000	8	76 119	18	3.4°N	81 41.9°W	9	44.81 0006	4324. 4369.		1.8K	17	0000	0		
KNR	54	2	0023	0000	8	76 123	18	4.4°N	81 47.8°W	9	44.81 0008	4892. 5103.		086K	17	0000	0		
KNR	54	2	0024	0000	8	76 123	18	7.0°N	81 46.8°W	9	44.81 0009	5011. 5066.		061K	17	0000	0		
KNR	54	2	0026	0000	8	76 124	18	4.4°N	81 48.6°W	9	44.81 0010	4001. 4459.		355K	17	0000	0		
KNR	54	2	0027	0000	8	76 124	18	1.2°N	81 48.6°W	9	44.81 0011	4413. 4369.		084K	17	0000	0		
KNR	54	2	0029	0000	8	76 125	18	3.6°N	81 46.8°W	9	44.81 0012	4956. 4683.		019K	17	0000	0		
KNR	54	2	0030	0000	8	76 125	18	5.4°N	81 44.9°W	9	44.81 0013	5411. 4892.		026K	17	0000	0		
KNR	54	2	0033	0000	8	76 126	18	5.8°N	81 42.6°W	9	44.81 0014	4874. 4911.		047K	17	0000	0		
KNP	54	2	0037	0000	8	76 128	18	5.7°N	81 46.6°W	9	44.81 0017	5157. 4403.		304K	17	0000	0		
KNR	54	2	0039	0000	8	76 129	18	6.9°N	81 45.4°W	9	44.81 0018	5502. 5157.		034K	17	0000	0		
KNR	54	2	0040	0000	8	76 129	18	1.6°N	81 46.3°W	9	44.81 0019	4628. 4892.		034K	17	0000	0		
KNR	54	2	0042	0000	8	76 130	17	58.0°N	81 47.6°W	9	44.71 0020	4630. 4459.		195K	17	0000	0		
KNR	54	2	0044	0000	8	76 130	18	1.6°N	81 44.9°W	9	44.81 0022	4610. 4486.		136K	17	0000	0		
KNR	54	2	0046	0000	8	76 131	17	59.8°N	81 45.5°W	9	44.71 0023	4623. 4397.		206K	17	0000	0		
KNR	54	2	0047	0000	8	76 131	18	6.0°N	81 47.6°W	9	44.81 0024	5075. 4499.		062K	17	0000	0		
KNR	54	2	0051	0000	8	76 2 2	18	7.3°N	81 43.0°W	9	44.81 0027	5684. 5575.		072K	17	0000	0		
KNR	54	2	0052	0000	8	76 2 2	18	7.3°N	81 46.0°W	9	44.81 0028	5393. 5474.		007K	17	0000	0		
KNR	54	2	0054	0000	8	76 2 3	17	59.1°N	81 34.4°W	9	44.71 0029	2047. 1956.		002K	17	0000	0		
KNR	54	2	0058	0000	8	76 2 3	18	7.6°N	81 43.8°W	9	44.81 0031	5329. 4965.		063K	17	0000	0		
KNR	54	2	0062	0000	8	76 2 4	18	25.0°N	81 40.8°W	1	44.81 0033	4665. 3913.		048K	17	0000	0		
KNR	54	2	0063	0000	8	76 2 5	18	35.7°N	81 41.3°W	9	44.81 0034	5123. 4628.		145K	17	0000	0		
KNR	54	3	0067	0000	8	76 210	18	38.7°N	81 12.6°W	9	44.81 0035	4118. 3438.		4.3K	17	0000	0		
KNR	54	3	0071	0000	8	76 211	18	45.9°N	81 35.0°W	9	44.81 0037	5292. 4628.		090K	17	0000	0		
KNR	54	3	0073	0000	8	76 212	18	56.6°N	81 31.3°W	9	44.81 0038	4701. 4568.		036K	17	0000	0		
KNR	54	3	0074	0000	8	76 212	18	49.0°N	81 32.8°W	9	44.81 0039	5657. 3529.		062K	17	0000	0		
KNR	54	3	0090	0000	8	76 216	18	37.0°N	81 44.0°W	1	44.81 0090	4755. 5283.		072K	17	0000	0		
				**COMMENTS**				ANGUS	CAMERA	FRAME	RECOVERED	THIS BASALT							
KNR	54	3	0091	0000	8	76 217	18	35.1°N	82 8.1°W	9	44.82 0042	4683. 4985.		075K	17	0000	0		
KNR	54	3	0094	0000	8	76 218	18	35.2°N	81 46.2°W	1	44.81 0043	5084. 5178.		146K	17	0000	0		
KNR	54	3	0098	0000	8	76 219	18	25.9°N	81 41.2°W	9	44.81 0045	5084. 4373.		083K	17	0000	0		
KNR	54	3	0102	0000	8	76 220	18	44.8°N	81 48.5°W	9	44.81 0046	6142. 6097.		2.4K	17	0000	0		
KNR	54	3	0103	0000	8	76 220	18	37.6°N	81 44.8°W	9	44.81 0103	5176. 5100.		012K	17	0000	0		
				**COMMENTS**				ANGUS	CAMERA	FRAME	RECOVERED	THIS BASALT							



KNORR 54 STATION 12 DREDGE 4 DESCRIBED BY BRODA & FARMER DATE 2/20/79

[illegible]

CRUISE KNORR 54 STATION see below DREDGE            DESCRIBED BY BRODA & FARMER DATE 2/21/79

[illegible]



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 54 STATION see below DREDGE            DESCRIBED BY FARMER & BRODA DATE 2/20/79

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
STA 23	Dredge 8										
1	Glassy basalt	6.4	A		tr Pg	1%			F		Pillow fragments; contains abundant microlaths of Pg
2	Glassy basalt	5	A		tr Pg	1%			F		" " "
5	Glassy basalt	3.4	A		tr Pg	1%			F		" " "
21	Glassy basalt	3.8	A		tr Pg	1%			F		" " "
10	Glassy basalt	2.3	A		tr Pg	1%			F		" " "
15	Glassy basalt	1.6	A		tr Pg	1%				tr Palagonite	" " "
12	Glassy basalt	2.3	A		tr Pg	1%					" " "
numbered small	Glassy basalt	61.3	A		tr Pg	1%				Very slight palagonite occasionally found	In general abundant microlaths of Pg are present
	It can be assumed that all the above fragments came from a small number of parent pillows.										
STA 24	Dredge 9										
1	Basalt	.4	A			5%	5	mm	L	tr Palagonite	Interior chambers filled with consolidated baked(?) calc ooze.
2	Basalt	.2	A			tr			F		
3	Glassy basalt	2.0	A			tr			.2	Variolitic	"blue glass"
4	Glassy basalt	24	A		tr Pg	tr			F	Variolitic	
5	Glassy basalt	34	A		tr Pg	tr			F	Variolitic	

WHOI ROCK SAMPLE DESCRIPTION |

CRUISE KNORR 54 STATION 26 DREDGE 10 DESCRIBED BY BRODA & FARMER DATE 2/1979

[illegible]



CRUISE KNORR 54 STATION 29 DREDGE 12 DESCRIBED BY FARMER & BRODA

DATE 2/20/79[illegible]

## WHOI ROCK SAMPLE DESCRIPTION

Page 1

CRUISE KNORR 54 STATION 30 DREDGE 13 DESCRIBED BY FARMER &amp; BRODA DATE 2/21/79

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
13	Glassy basalt	.2	A		4% Plag (medium)	tr			L	Moderate palagonite	
30, 37	Glassy basalt	.5	A		3% Plag	3%			L	"	
5, 63, 149	Glassy basalt	.4	A		3% Plag	tr			L	"	
92	Basalt	.4	A		1% Plag	3%			L		
120	Basalt	.4	A			2%			L		
90	Basalt	.8	A			2%			L		
150	Basalt	.4	A		tr Plag	2%			L		Variolitic
71	Basalt	.2	A			tr			L		
79	Basalt	.2	A			2%			L		Tr varioles
14, 83, 105	Basalt	.6	A			tr-2%			L		Highly variolitic
67	Diabase	.1	F						L	Lightly serpentinized	
42, 70, 81	Greenstone	.7	A	Black magnetites, spinels ?					M	Moderately chloritized	
117	Greenstone	.2	A						M	"	
41	Greenstone	.3	A						M	Moderately chloritized	
87	Greenstone	.2	A						M	"	
18	Greenstone	.1	A						M	"	
34	Greenstone	.2	A						M	Heavily chloritized	Large metagabbroic vein plastered on one side
23, 29, 75, 85	Metagabbro	.4	M						L	Mildly chloritized	

STATION

DESCRIBED BY:

FARMER &amp; BRODA

DATE 2/21/79

[illegible]







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CRUISE KNORR 54 STATION 39 DREDGE 18 DESCRIBED BY FARMER & BRODA DATE 2/27/79

[illegible]





CRUISE KNORR 54 STATION 42 DREDGE 20 DESCRIBED BY \_\_\_\_\_ DATE \_\_\_\_\_

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CRUISE KNORR 54

[illegible]

CRUISE KNORR 54 STATION 46 DREDGE            DESCRIBED BY FARMER/BRODA DATE 6 Mar 1979

[illegible]

[illegible]



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CRUISE KNORR 54 STATION 47 DREDGE            DESCRIBED BY FARMER/BRODA DATE 7 March 79

[illegible]





CRUISE	STATION	DREDGE	DESCRIBED BY
KNORR 54	52/54	28/29	FARMER

DATE Jan 1980[illegible]

## WHOI ROCK SAMPLE DESCRIPTION

CRUISE		KNORR	54	STATION	58	DREDGE		31	DESCRIBED BY		FARMER	DATE	1/24/80
Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks		
62	Basalt	15	A		tr Plag			tr	F				
1	Glassy basalt	2	A		2% plag	tr			F				
11	Basalt	3	A			1%			F				
15	Basalt	1.5	A					tr	F		Variolitic		
31	Basalt	2.0	A			tr			L				
2	Glassy basalt	1.8	A		tr Plag	tr			F	Partially palagonitized			
12	Basalt	1.4	A			3%			L				
19	Basalt	1.5	A		tr Plag, tr Ol	5%			L				
20	Basalt	1.0	A		tr Pl	tr		tr	L				
22	Basalt	1.0	A			5%			L				
25	Basalt	1.0	A		1% Pl				L				
10	Basalt lava tube	2.6	A		2% Pl	tr			F	50% palagonitized	Vesicles concentrated at center		
35	Glassy basalt	.6	A						F	Mostly "			
52	Glassy basalt	1.0	A						F		Very glassy slab		
48	Basalt	.1	F						L		Somewhat coarser grained than rest of basalts		
Numbered	Basalts	25		As described above, generally small angular pieces relatively little glass									
	calc ooze	.7			Soft sediment								

WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNORR 54 STATION 62 DREDGE 33 DESCRIBED BY FARMER

DATE 2/24/80[illegible]



WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNORR 54 STATION 67 DREDGE 35 DESCRIBED BY FARMER DATE 1/24/80

[illegible]



## WHOI ROCK SAMPLE DESCRIPTION

CRUISE KNORR 54 STATION 71 DREDGE 37 DESCRIBED BY FARMER DATE 1/24/80

Sample #	Lithology	Wt.	G. S.	Mineralogy	Phenocrysts	Ve	Am	Mn	We	Alteration	Remarks
13,71,100	Red mudstone	1.7	A					tr	F	Calcite veins	Rocks have fault planes on one surface
36	Limestone	.4	A-F						F	Pale gray, highly calcareous	
14	Limestone	1.0	A					tr	F	Pale gray, highly calcareous with calcitic veins	
5	Fault gouge	6.0	C						M	Breccia consisting of various states of greenstone & metagabbro with well developed calcite crystals	
25	Brecciated greenstone	1.6	A						H	Heavily altered, soft, more massive than above pieces; calcite veins and crystals	
26	Fault gouge	.7	C						M-H	Breccia of greenstone fragments	
3	Brecciated greenstone	6.0	A					tr	M-H	Soft, relatively massive	
24	"	1.0	A						M	Abundant calcite veins	
1	Breccia	12.0	C	Greenstone + metagabbro					M	Large angular to subrounded fragments with varying degrees of weathering	
50	Breccia	2.0	C	Greenstone, gabbro, metagabbro & red mudstone					M-H	Large angular to subrounded fragments with varying degrees of weathering	
7	Metagabbro	7.3	F						M-H	Original crystals virtually destroyed	
2	Breccia	2.5	C	Greenstone, metagabbro & calcite veins					M-H		
53	Greenstone	.8	A		3% Plag				M	Partially chloritized but plag. phenocrysts still preserved - well developed calcite crystals	
29	Metagabbro	.8	F								

WHOI	ROCK	SAMPLE	DESCRIPTION
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FARMER

37

**DREDGE**

71

STATION

KNORR 54

## CRUISE

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CRUISE KNR 54 STATION 74 DREDGE            DESCRIBED BY BRODA/OTTER DATE 4/21/81

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WHOI	ROCK	SAMPLE	DESCRIPTION
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CRUISE KNR 54 STATION 98 DREDGE            DESCRIBED BY            BRODA/OTTER            DATE 4/21/81

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